

*Inspired Global Solutions™*

# Innovation Driven



Quality Certification ISO/TS 16949

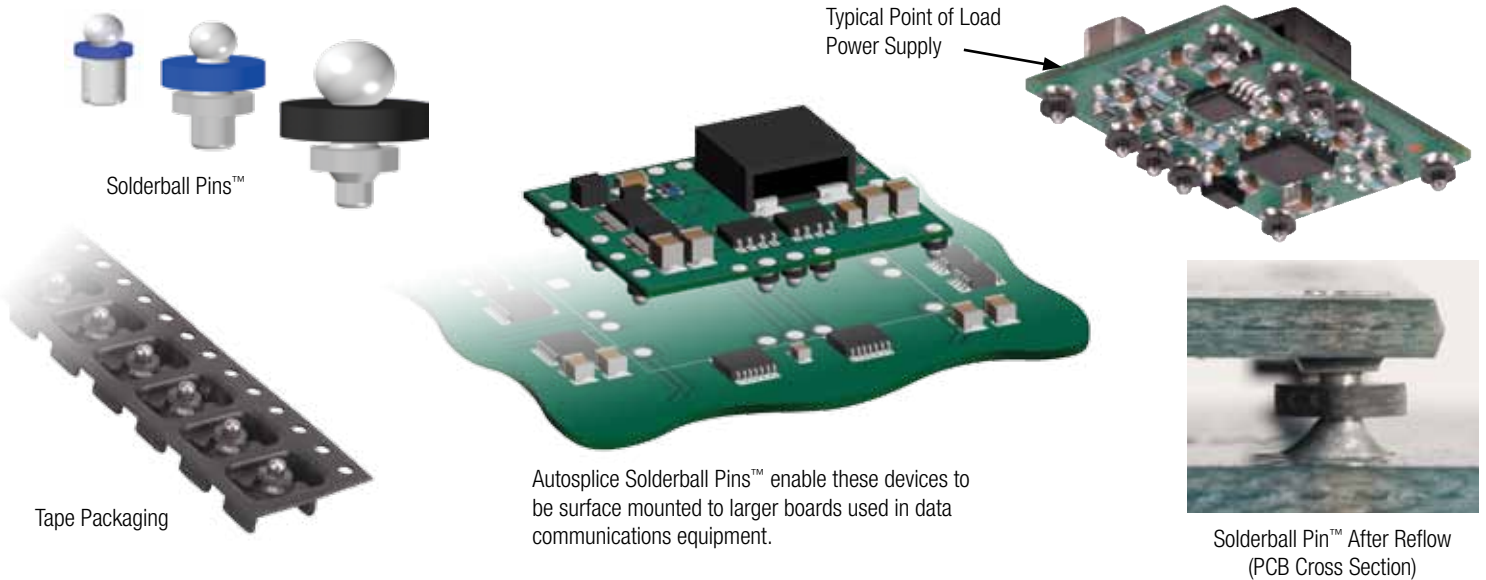
**autossplice**®

Innovative Interconnections™

# Surface Mount Technology

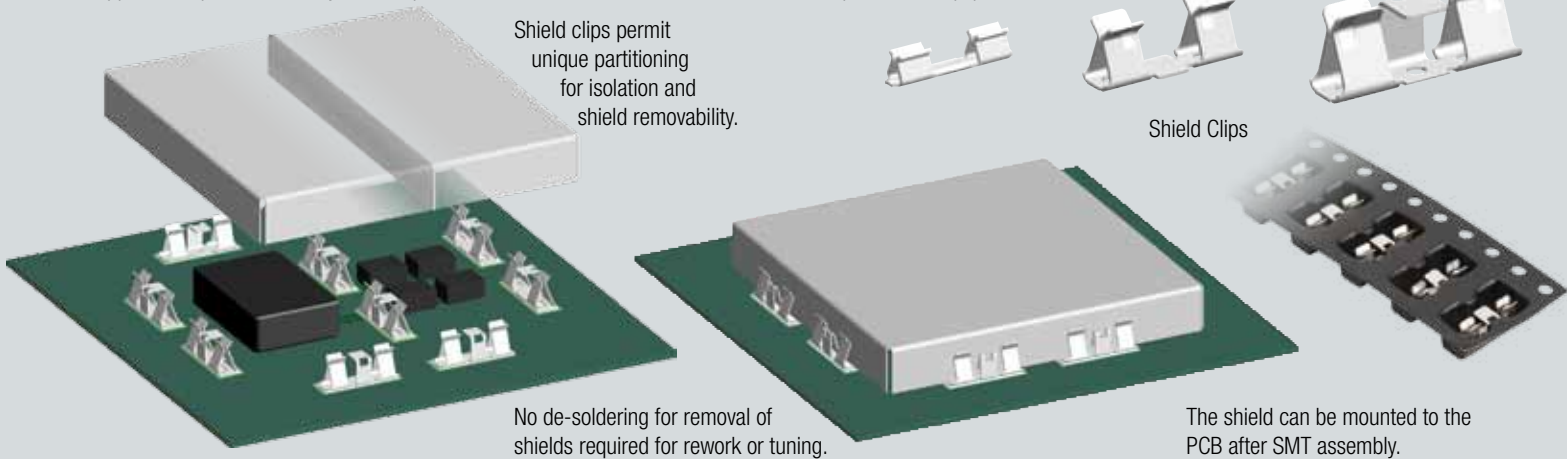
## Solderball Pin™ Eliminates Coplanarity Concerns When Soldering Parallel PC Boards

Provides the reliability of Solderball interconnect with a stand-off allowing component assembly on the Solderball side of the PCB. Packaged in tape and reel for use with standard feeders for automated placement. The product contains a Solderball that maintains its shape during multiple solder reflow processes. The PC board or device can then easily be soldered to pads on another parallel PC board. The Solderball Pins™ accommodate up to .020" (0.5mm) coplanarity variation with high current reliability.



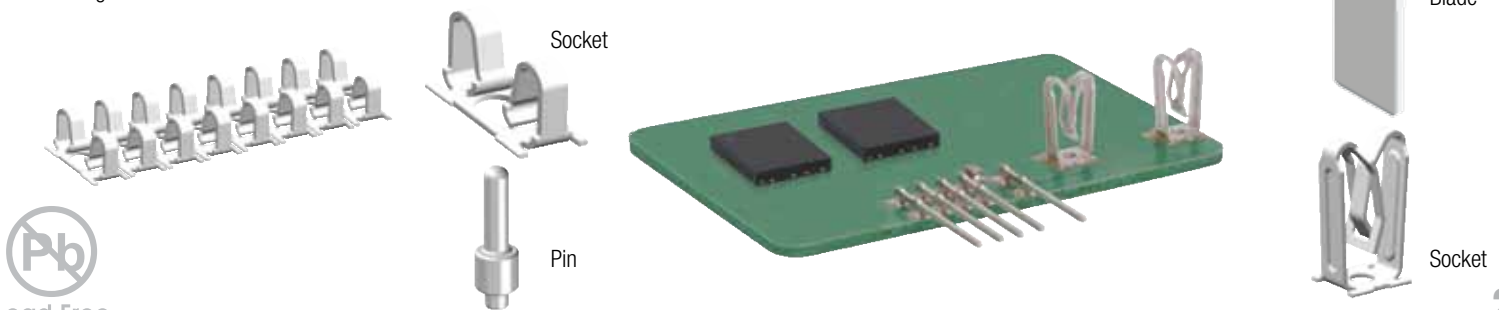
## Surface Mount Shield Clips

Shield Clips surface mounted to PC boards are used to connect EMI/RFI shields to eliminate difficult soldering processes. Supplied in tape and reel they are compatible with standard feeders and SMT automated placement equipment.



## Socket Receptacles

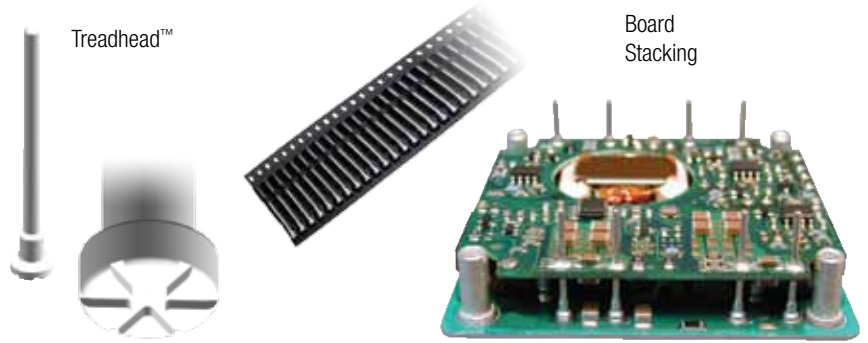
Provide a fully automated method for assembling receptacles to PCBs. Sockets can be packaged in tape and reel for standard pick and place equipment or can be supplied on continuous reels to be used with Autosplice custom feeders resulting in component cost savings.



# Surface Mount Technology

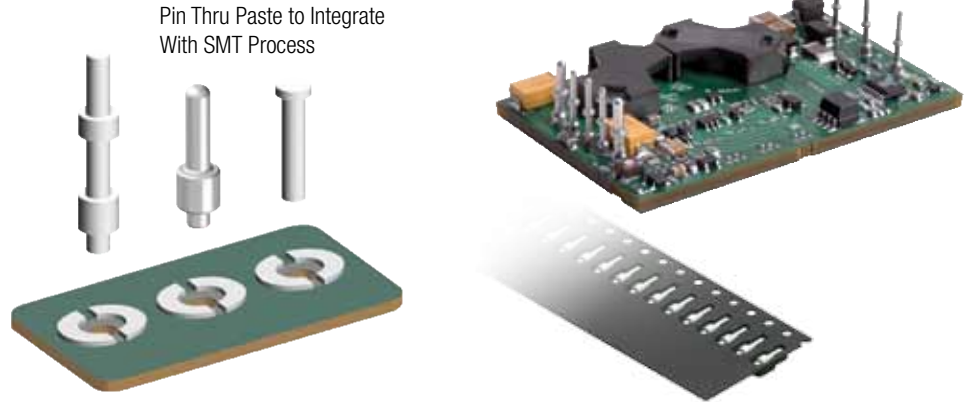
## Improve Pin Alignment and Pull-Strength

A unique new "Treadhead" SMT pin design delivers significant improvements compared to conventional SMT pin designs. The channeled head design facilitates out-gassing and increases the solder fillet area resulting in improved pin alignment and increased pull strength.



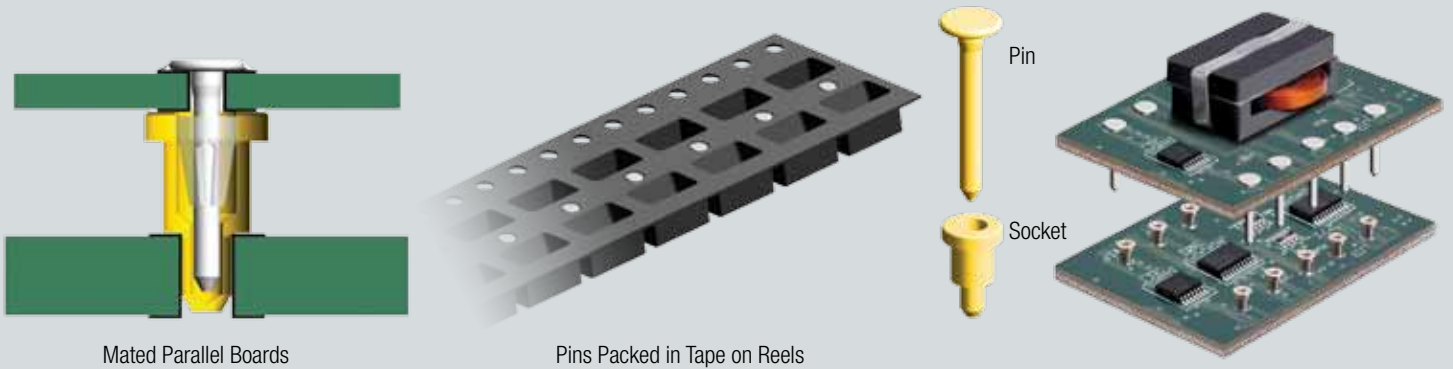
## Autosplice Hybrid Pins™

Provide a fully automated method for assembling through-hole interconnects between stacked PCBs. Designed for insertion through paste using standard placement platforms, the Hybrid Pins are fully compatible with existing SMT processes. Hybrid Pins provide the inherent mechanical robustness and higher current carrying capacity of through-hole pins. Feeders are available for standard placement equipment.



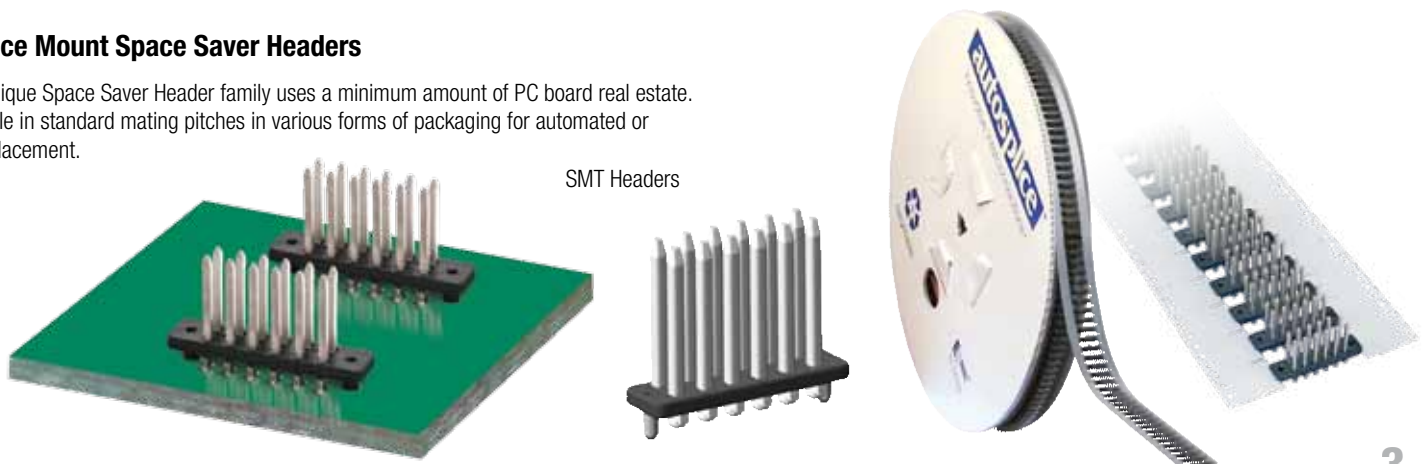
## Drop Through Pin and Socket

This pin and socket pair form a separable connection for stacking parallel PCB's. These components are placed using standard SMT machines for reflow soldering. By placing the pins in holes, excellent mechanical strength is achieved without requiring "off-line" hand assembly or non-standard equipment.



## Surface Mount Space Saver Headers

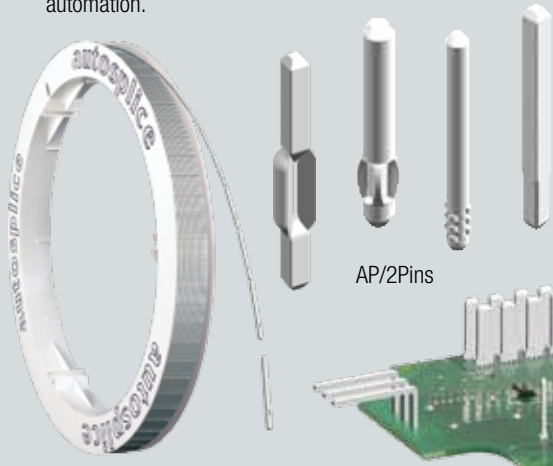
This unique Space Saver Header family uses a minimum amount of PC board real estate. Available in standard mating pitches in various forms of packaging for automated or hand placement.



# Discrete Terminals

## AutoPin/2 Interconnect Pins

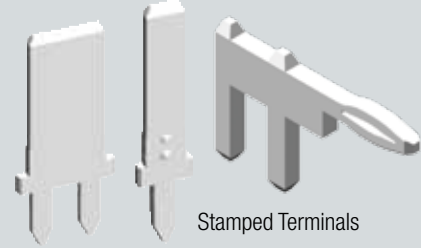
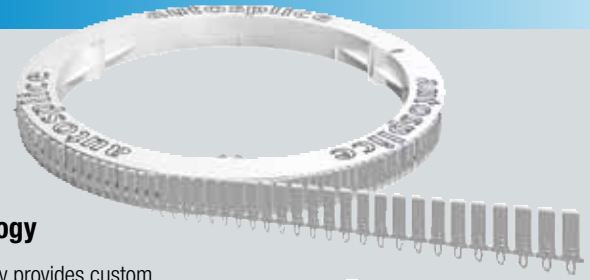
Autosplice's AutoPin/2 technology is a total process solution that offers a large variety of low cost pin sizes, types and features along with a continuous packaging format compatible with high speed automation.



AP/2Pins

## AutoTab™ Systems Technology

High speed progressive die technology provides custom terminals supplied in continuous reeled format.



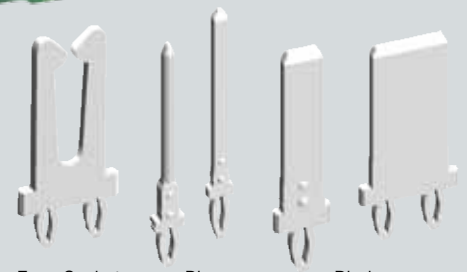
Stamped Terminals



AutoLead™

## Solderless Compliant Blades

Compliant blade terminals designed with excellent insertion and retention characteristics are available for use in plastic housings or for direct insertion using Autosplice Insertion Equipment.



Fuse Socket

Pins

Blades

Compliant Terminals

## AutoLead™ Angled Pin Contacts

A machine applied solution for angled pin interconnects.

# Insertion Equipment

## Versatile CNC System For Cost Effective High Speed Contact Insertion

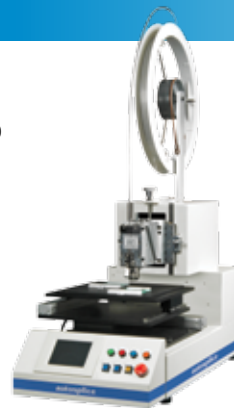
Autosplice insertion platforms represent the next major step for extending our industry leadership in automated insertion technologies. The MultiSert™ platforms are available in single-head or dual-head configurations giving electronics manufacturers an ideal combination of flexibility and throughput for both high-mix and high-volume production environments. Automatic insertion models are designed for a variety of manufacturing environments from SMEMA standard in-line systems to bench-top operations.

MultiSert™

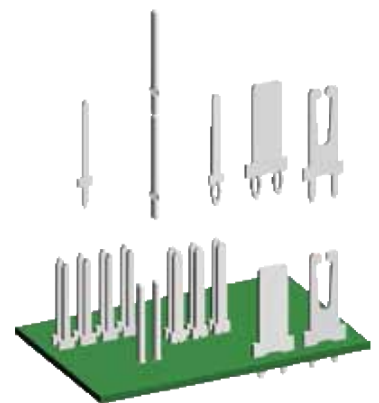


Stand Alone or In-Line With SMT Equipment

Compact Mini™ Bench Top Machine



MiniSert™



Dual Head Machine

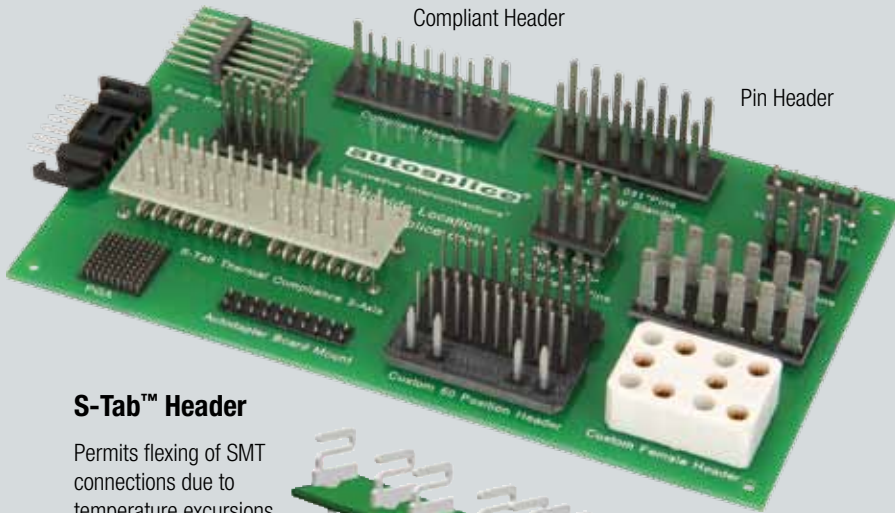


Lead Free

# Custom Pin/Blade Headers

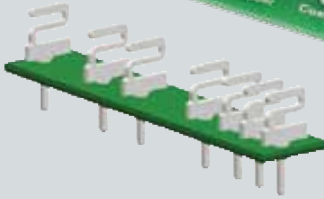
## Connector Design Flexibility and Quick Turn

Create a custom header with standard components without the tooling cost for a custom plastic molding or stamping die with delivery in weeks instead of months! Use FR-4 glass epoxy (PC board material) as the insulator and match the CTE of your PC board for increased reliability in SMT applications. Prototype and production in low to high volumes at a minimal investment with Custom Headers that satisfy your application needs.



### S-Tab™ Header

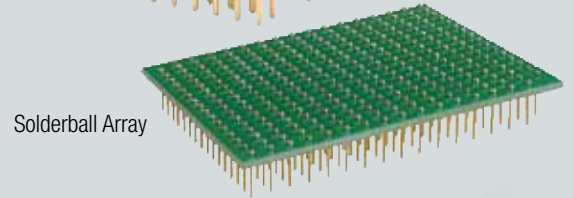
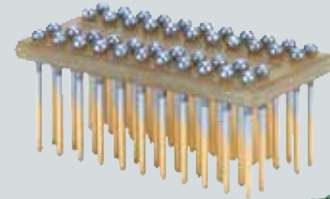
Permits flexing of SMT connections due to temperature excursions.



## SMT Solutions

### Solderball Attach Capabilities

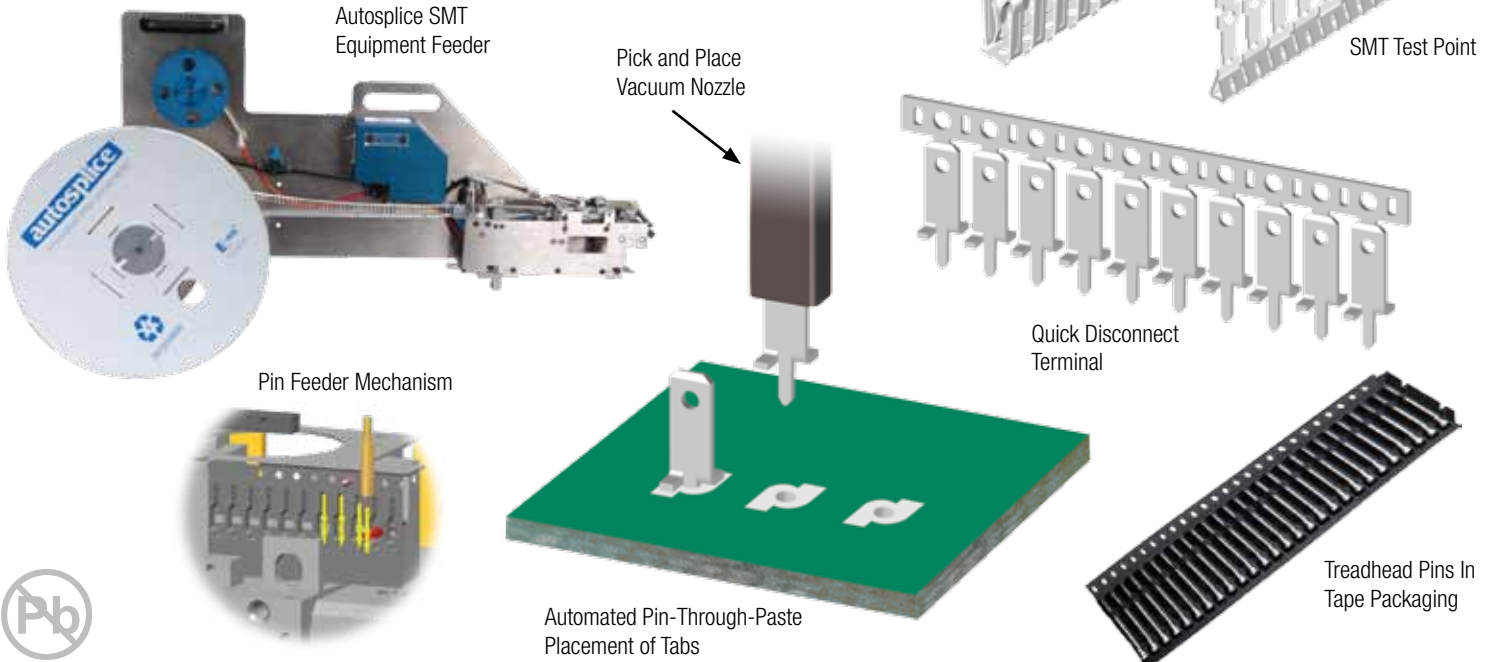
Surface Mount Pin Carriers with Pre-Attached Solder Balls. Robust Solder Joint. Packaged in Tape and Reel that satisfy your application needs.



# New Custom Feeder Technology

## AutoFeeder™ Technology Compatible with a Variety of Flex Cells

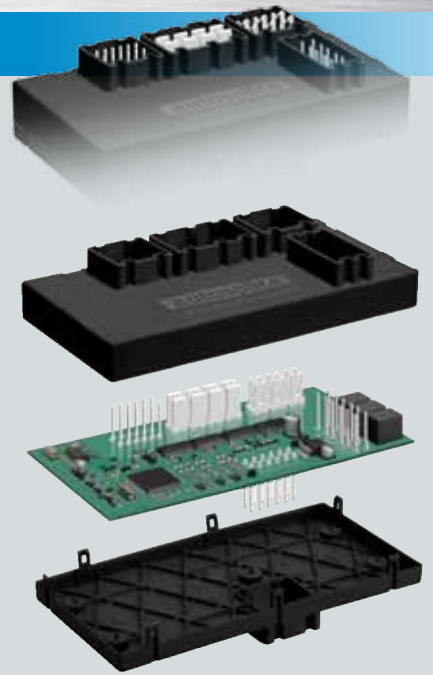
Autosplice's AutoFeeder™ Technology permits placement of discrete thru-hole and SMT pins using standard SMT flex cell pick and place equipment. The self-contained unit mounts onto standard pick and place equipment and is compatible with Fuji, Siemens, Sanyo, Universal, Panasonic and others.



# Integrated Connector Modules

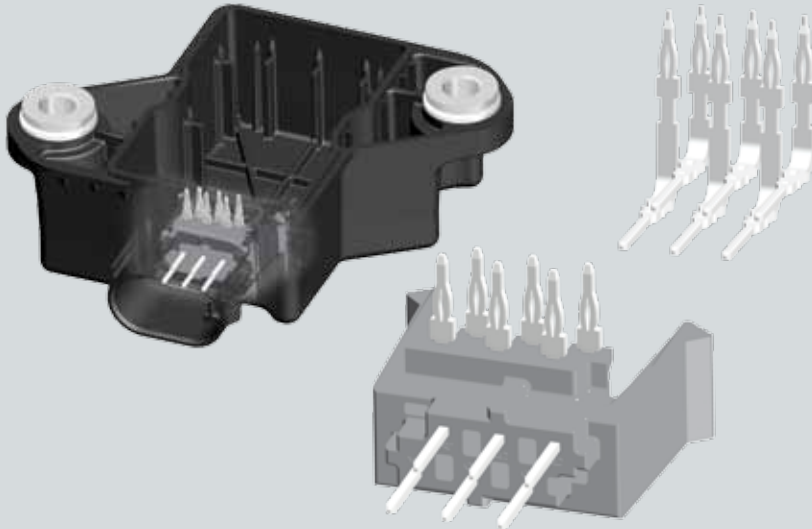
Autosplice combines a number of technologies resulting in significant cost savings, reliability and ease of assembly. The ICM incorporates robust solderless compliant terminals with precision molding and low cost flexible assembly technology. This product gives Autossplice customers the ability to design custom module enclosures with moisture sealing, mounting hardware and connectors preinstalled.

The use of ICM removes the connector assembly from the PCB assembly process; the finished PCB is simply pressed into the ICM making connections through the solderless compliant terminals.



## Smart Junction Box Assembly Using Reflow Processes

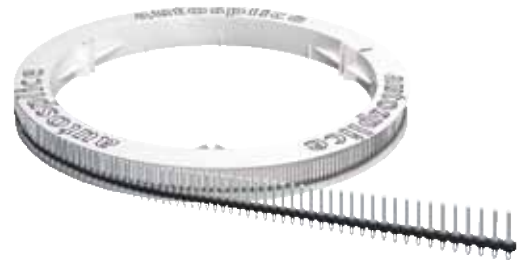
Eliminate expensive separate connectors, wave soldering, and selective soldering in favor of more cost-effective processes. Reflow processes can be combined with automatic insertion to assemble fuse receptacles and blade terminals directly into the junction box printed circuit board.



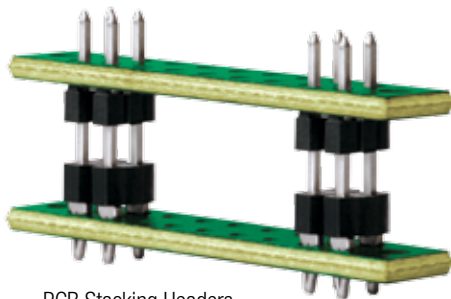
# Continuous Plastic Molding

## Continuous Autoheader™ Solderless Interconnect For Maximum Flexibility

Connector products are supplied in reeled format for automatic cut-to-size and placement onto PC boards automatically. Both solder tail and compliant eye-of-needle terminations are available in a wide range of pin and blade sizes on different centerline spacings. Custom products are easily produced for many standard Telecom, Computer and Automotive USCAR socket connectors. An AutoTrimmer™ is also available for kitting discrete sizes.



Compliant AutoHeaders™



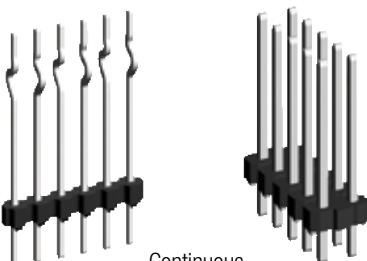
PCB Stacking Headers



90° Dual Row AutoHeader™



Continuous Blade Headers



Continuous Pin Headers



Soldertail and Compliant Versions Available

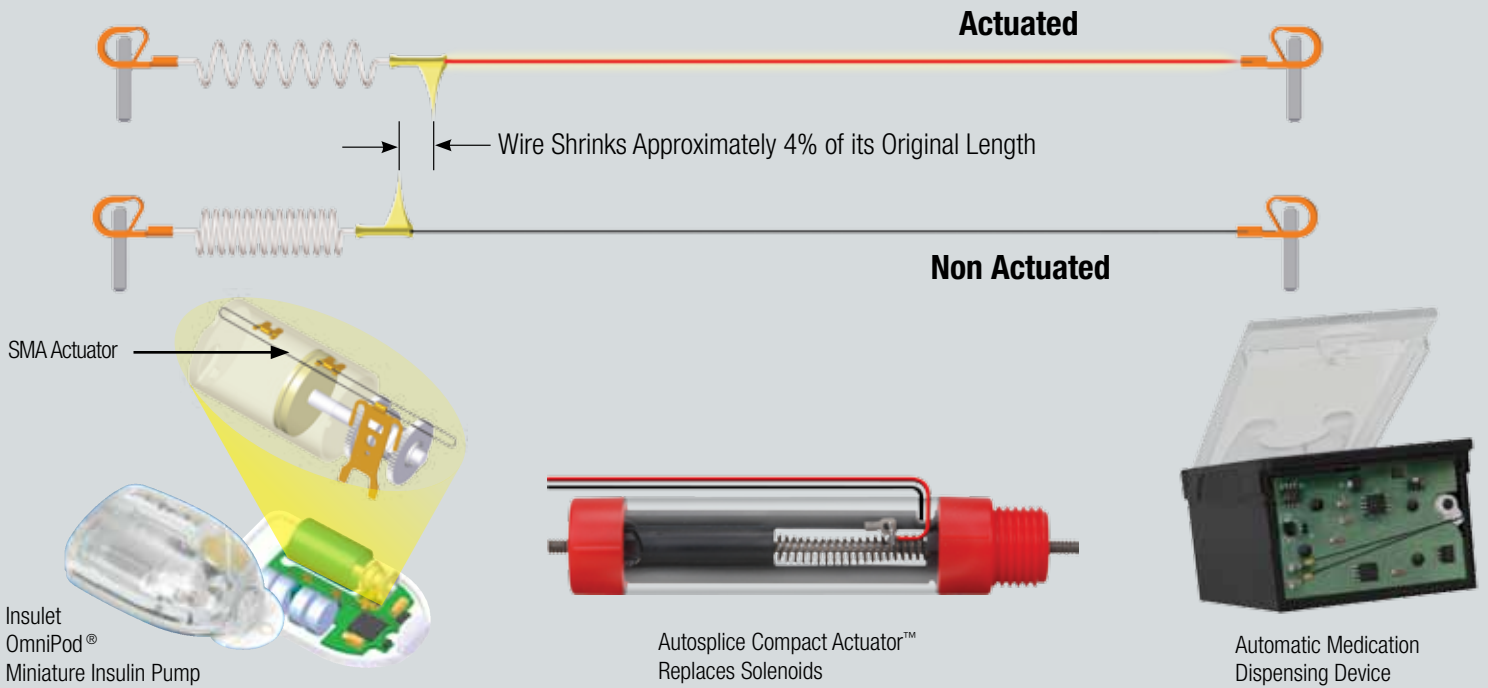


Lead Free

# Shape Memory Actuation

## About Shape Memory Alloy (SMA) Wire Technology

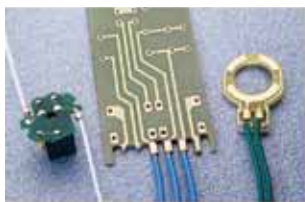
Shape Memory Alloy (SMA) Wire Actuation Devices use a particular alloy of high strength corrosion resistant Nitinol (Nickel Titanium) material that contracts approximately 4% when heated. In most applications the heat is conveniently and precisely generated by an electrical current. SMA wire is used reliably in a wide variety of applications including medical, computer, consumer, automotive and industrial products, as represented by the devices shown below.



# Crimping Products

## Solderless Connections To Wires And Component Leads

Autosplice's Crimping Systems™ equipped with crimp force monitoring capabilities provide repeatable, reliable connections monitored in real time. Improves cost and reliability vs. soldering.



Lead Free

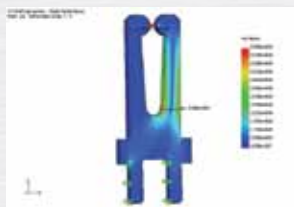
# Over 50 Years of Design Engineering Innovation

## Component and Machine Application Solutions

Engineered interconnection solutions are critical to many of Autosplice's customers. Experience in the creation of cost-effective interconnection technology combined with years of component insertion equipment and placement knowledge sets Autosplice apart from ordinary connector suppliers. Unique designs that provide quality, reliability, and installed cost savings are Autosplice's contribution to customers' requirements.



Design



Analysis

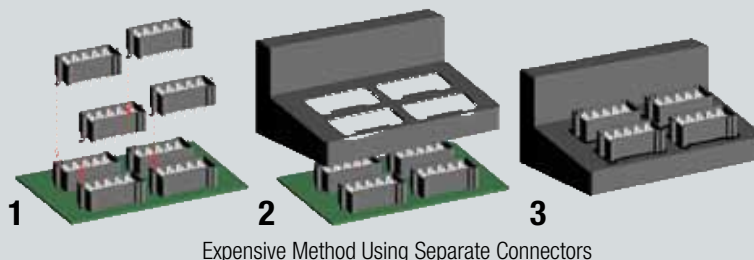
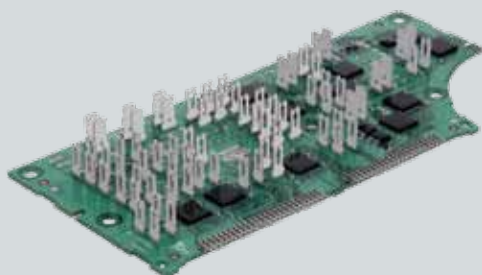
Validation



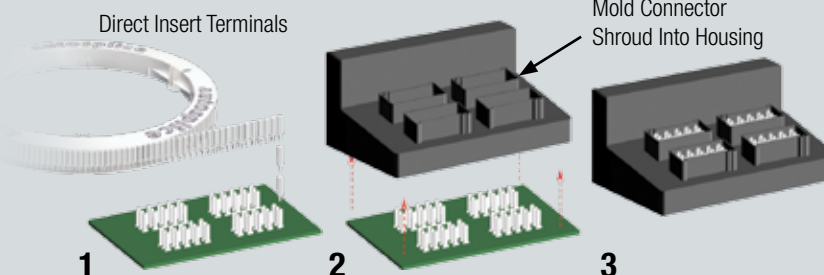
## Value Added Assemblies

### Smart Junction Box Assembly Using Reflow Processes

Eliminate expensive separate connectors, wave soldering, and selective soldering in favor of more cost-effective processes. Reflow processes can be combined with automatic terminal insertion to assemble fuse receptacles and blade terminals directly into the junction box printed circuit board.



Expensive Method Using Separate Connectors



Cost Reduction Using Autosplice Direct Insertion

## Authorized Distributors

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Performance. Trust. Innovation.

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