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As the industry’s first surface-mountable connectors to be supplied on a continuous reel, Surf-Shooter SMT connectors are used as part of Zierick’s patented Surf-Shooter SMT (Surface Mount Technology) Assembly System to simplify surface mount assembly. The complete Surf-Shooter SMT system feeds, separates, and presents the continuous format, surface-mountable connectors to the vacuum pick-up head of a new or existing placement system.

The continuous format design of the stamped Surf-Shooter SMT connectors eliminates the need for prepackaging that surface mount connectors typically come in. Even odd-form components can be fed to the placement system on continuous reels, eliminating hand assembly.

For easy integration into customer assembly lines, the Surf-Shooter SMT Assembly System operates with virtually any standard placement system. Each Surf-Shooter SMT system consists of a feeder system and continuous Zierick connectors. Zierick will supply or modify feeders for virtually any SMT placement system.

• Surf-Shooter SMT connectors are used within Zierick’s Surf-Shooter SMT Assembly System to feed, separate, and present the continuous format connectors to the pick-up head.

• Surf-Shooter SMT connectors eliminate plastic pre-packaging due to their continuous format design.

• The Surf-Shooter SMT Assembly System operates with virtually any standard flexible placement system.

• Available in 16mm and 24mm tape format.

Zierick’s surface mount terminals feature internal holes or slots at the base which foster a capillary solder wicking action for improved post reflow accuracy and joint strength.

Zierick’s Surf-Shooter SMT connectors are the first surface-mountable connectors to be supplied on a continuous reel, for easy feeding to the vacuum pick-up head of a placement system.

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• The Surf-Shooter SMT Assembly System operates with virtually any standard flexible placement system.
Surf-Shooter SMT pins and posts are specially designed for high-reliability PCB interconnection applications. They are available in 0.025” square (0.64mm), 0.040” (1.02mm), 0.043” (1.09mm), 0.060” (1.52mm), and 0.080” (2.03mm) diameters.

To increase interconnection reliability, they utilize the capillary action of reflowing solder to improve solder joint strength. Pull-force tests reveal that a post with proper capillary action has much higher retention to the printed circuit board than a post without the capillary action feature.

The higher retention force is attributable to two conditions:

1) The first is the very thin layer of solder between the base of the pin and the solder pad. Solder is a weak alloy with a low yield stress. A thicker layer of solder will fail before a thinner layer will. Solder behavior is analogous to that of adhesive: undeniably a thinner layer of adhesive bonds more strongly than a thicker layer.

2) As the solder paste reflows, flux and other active ingredients in the solder cause outgassing. These gasses get trapped under a relatively large surface like the base of the pin. The trapped gasses create voids in the solder that are clearly visible when the pin is pulled off or the solder joint is cross-sectioned. Pins that employ capillary action have fewer and smaller voids because the capillary tube provides a way for gasses to escape. Cracks in solder joints develop from such voids during thermal cycling. Field evaluations show that posts with enhanced capillary action are more resistant to the effects of thermal cycling.

Application Design Concepts

New design requirements? … submit your project information online at www.zierick.com/stampquote.htm

The above illustrations are design concepts only.
**Surface Mount Pins**

**Recommended Solder Pad Geometry**

- **Round**
  - \( 0.025 \text{ (0.635mm)} \) Square
  - \( 0.076 \text{ (1.91mm)} \)

- **Square**
  - \( 0.025 \text{ (0.64mm)} \)
  - \( 0.082 \text{ (2.08mm)} \)
  - \( 0.082 \text{ dia. (2.08mm)} \)
  - \( 0.100 \text{ (2.54mm)} \)
  - \( 0.082 \text{ dia. (2.08mm)} \)
  - \( 0.070 \text{ (1.78mm)} \)

**Solder Paste Over Copper Pad (Crosshatched)**

**Feeder System**

- Surf-Shooter SMT – Loose Piece (Pin Shooter)

**Recommended Solder Paste Over Copper Pad (Crosshatched)**

**Pad Geometry**

- **L**
  - \( 0.390 \text{ (9.91mm)} \)
  - \( 0.580 \text{ (14.73mm)} \)
  - \( 0.680 \text{ (17.27mm)} \)

- **D**
  - \( 0.043 \text{ (1.09mm)} \)
  - \( 0.060 \text{ (1.52mm)} \)
  - \( 0.080 \text{ (2.03mm)} \)

- **D1**
  - \( 0.095 \text{ (2.41mm)} \)
  - \( 0.100 \text{ (2.54mm)} \)
  - \( 0.145 \text{ (3.56mm)} \)

- **Pad A**
  - \( 0.082 \text{ (2.08mm)} \)
  - \( 0.082 \text{ dia. (2.08mm)} \)
  - \( 0.100 \text{ (2.54mm)} \)

- **Pad B**
  - \( 0.082 \text{ (2.08mm)} \)
  - \( 0.082 \text{ dia. (2.08mm)} \)

**Recommended Loose Part No.**

- **1216**
- **1222**

**Recommended Reeled Part No.**

- **6216**
- **6222**

**Material Thickness/Type**

- \( 0.012 \text{ (0.30mm)} \)
- Brass

**Standard Finish**

- 100% Tin over Copper

**Feeder System**

- Surf-Shooter SMT – Continuous Strip

**U.S. Patent No. 5,816,868 and international patents**

**For exact finish specifications and available special finishes, see Finish Table (page 106).**
# Surface Mount Solid Pins

## SOLID SMT PINS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>L*</th>
<th>D</th>
<th>D1</th>
<th>Pad</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2-680</td>
<td>0.040&quot; (1.02mm) Dia x 0.680&quot; (17.27mm) long Copper solid SMT post; 100% Tin over Copper</td>
<td>0.680&quot; (17.27mm)</td>
<td>0.040&quot; (1.02mm)</td>
<td>0.096&quot;±0.005&quot; (2.41mm±0.127mm)</td>
<td>A</td>
</tr>
<tr>
<td>A3-680</td>
<td>0.060&quot; (1.52mm) Dia x 0.680&quot; (17.27mm) long Copper solid SMT post; 100% Tin over Copper</td>
<td>0.680&quot; (17.27mm)</td>
<td>0.060&quot; (1.52mm)</td>
<td>0.120&quot;±0.005&quot; (3.05mm±0.127mm)</td>
<td>B</td>
</tr>
<tr>
<td>A4-680</td>
<td>0.080&quot; (2.03mm) Dia x 0.680&quot; (17.27mm) long Copper solid SMT post; 100% Tin over Copper</td>
<td>0.680&quot; (17.27mm)</td>
<td>0.080&quot; (2.03mm)</td>
<td>0.140&quot;±0.010&quot; (3.56mm±0.254mm)</td>
<td>C</td>
</tr>
</tbody>
</table>

### Feeder System
Surf-Shooter SMT – Loose Piece (Pin Shooter)

* Additional Pin Lengths available upon request. Please consult factory.

---

**Recommended Solder Pad Geometry**

- **Pad A**
  - Solder Paste Over Copper Pad (Crosshatched)
  - 0.120 dia. (3.05)

- **Pad B**
  - Solder Paste Over Copper Pad (Crosshatched)
  - 0.140 dia. (3.56)

- **Pad C**
  - Solder Paste Over Copper Pad (White)
  - 0.160 (4.06) dia.
  - Solder Mask Over Copper (White)
SMT Post

Loose Part No. 1276
Material Thickness/Type 0.032" (0.81mm) Brass
Standard Finish 100% Tin over Copper
Feeder System Surf-Shooter SMT-Loose Pin (Pin Shooter)

Recommended Pad Geometry

SMT Shoulder Pin

Loose Part No. D2-480-A
Material Type Copper
Standard Finish 100% Tin over Copper
Feeder System Surf-Shooter SMT-Loose Pin (Pin Shooter)

Recommended Hole and Pad Layout

SMT Shoulder Pin

Loose Part No. A-2056
Material Type Copper
Standard Finish 100% Tin over Copper
Feeder System Surf-Shooter SMT-Loose Pin (Pin Shooter)

Recommended Hole and Pad Layout
Zierick integrates the automated manufacturing process with the reliability and quality of precision placement in the SMT Z-Axis Compliant Pin.

Providing Z-Axis (axial) compliancy, the Z-Axis pins compensate for thermal expansion and contraction, creating a more consistently dependable connection.

Uniquely designed for production in a continuous reel format, the SMT Z-Axis Compliant Pin optimizes automation, and with the Surf-Shooter SMT Feeder System, allows precision placement while using existing pick and place equipment. Z-Axis Compliant Pins can be placed on 0.100” x 0.120” on-center applications, making them ideal for parallel stacking applications.

Zierick designed the Z-Axis Compliant Pin to take advantage of capillary action, a process in which a more complete, more stable solder connection is established, providing superior joint strength and more reliably perpendicular pins.

The Z-Axis pins are manufactured using 0.012” (0.30mm) thick copper, and feature a 100% tin over copper finish.

**Benefits**

Zierick’s SMT Z-Axis Compliant Pin:

**Increases PCB design flexibility.**
- Compensates for thermal expansion and contraction through axial compliancy
- Consumes minimal real estate

**Optimizes automation.**
- Uses existing placement equipment with a Zierick Surf-Shooter SMT Feeder
- Enables the random placement of individual pins
- Allows for pin placement on 0.100” x 0.120” on-center applications

**Allows for a better connection.**
- Maximizes solder joint strength through utilization of capillary action
- Ensures that pins are reliably perpendicular
- Enhances geographical stability with high locational tolerances

A primary benefit of the SMT Z-Axis Compliant Pin is its ability to hold a strong, accurate connection under extreme temperature changes. Its Z-Axis (axial) compliancy is designed to compensate for thermal expansion and contraction.

As temperatures cause boards to shift, the pin compensates for separation, and holds a stronger, more dependable connection. The pin’s unique, flexible center-frame design actually expands or contracts in response to changes in board orientation.
Loose Piece Part No. 1264
Reeled Part No. 6264
Material Thickness/Type 0.012" (0.30mm) Copper
Standard Finish 100% Tin over Copper
Feeder System Surf-Shooter SMT Continuous Strip Feeder

Recommended Solder Pad Geometry
- Solder Paste Over Copper Pad (Crosshatched)

Alternate Solder Pad Geometry
- Solder Paste Over Copper Pad (Crosshatched)
SMT Tabs / Quick Disconnect Terminals

Zierick’s family of Surface Mount Quick Disconnect Tabs are now easier than ever to use. They are supplied on reels for easy application by our Surf-Shooter SMT Feeders, in loose piece for lower volumes, or in Surface Mount Tape Pockets.

Our Surface Mount Quick Disconnect Tabs in Tape Pockets are designed for easy pick-up by your existing placement system in two ways: we can offer Tape Pockets for Gripper pick-up (TG) or for Nozzle Pick-Up (TZ). For other requirements, please consult the factory.

SMT 0.250” (6.35mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

| Loose Part No. | 1195 |
| Taped Part No. | 1195TG |
| Material Thickness/Type | 0.032” (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper |
| Feeder System | TG: In Tape for Gripper Pick-Up Standard 24mm Tape Feeder |

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

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Recommended Pad Geometry

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Recommended Pad Geometry

| Loose Part No. | 1195 |
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Recommended Pad Geometry

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Recommended Pad Geometry

| Loose Part No. | 1195 |
| Taped Part No. | 1195TG |
| Material Thickness/Type | 0.032” (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper |
| Feeder System | TG: In Tape for Gripper Pick-Up Standard 24mm Tape Feeder |

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

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| Standard Finish | Loose: 100% Tin over Copper |
| Feeder System | TG: In Tape for Gripper Pick-Up Standard 24mm Tape Feeder |

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

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SMT 0.250” (6.35mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

| Loose Part No. | 1195 |
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| Material Thickness/Type | 0.032” (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper |
| Feeder System | TG: In Tape for Gripper Pick-Up Standard 24mm Tape Feeder |

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

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Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

| Loose Part No. | 1195 |
| Taped Part No. | 1195TG |
| Material Thickness/Type | 0.032” (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper |
| Feeder System | TG: In Tape for Gripper Pick-Up Standard 24mm Tape Feeder |

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)
SMT 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

Part In Tape

PN 619TZ, 6195 OBSOLETE
Replaced by 1285TZ and 6285

PN 1244 OBSOLETE

SMT 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

Consult factory for pricing and availability of Loose Piece Parts.

U.S. Patent No. 5,695,348 and other U.S. and international patents
For exact finish specifications and available special finishes, see Finish Table (page 106).
SMT 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

Loose | Strip | Taped
--- | --- | ---
1281 | 6281 | 1281TG

Material Thickness/Type

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1278</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strip Part No.</td>
<td>6278</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Feeder System</td>
<td>Surf Shooter SMT – Continuous Strip</td>
</tr>
</tbody>
</table>

SMT 0.187" (4.75mm) Tabs / Quick Disconnect Terminals

Mating receptacle first withdrawal force may not exceed the UL310 spec. of 18 lbs. max. A 2oz. PCB Copper trace recommended.

Recommended Pad Geometry

PRINT MODIFIED for PN 1278, 6278
See www.zierick.com/pages/sm_qdt1278.php

U.S. Patent No. 5,695,348 and other U.S. and international patents
For exact finish specifications and available special finishes, see Finish Table (page 106).
Zierick’s unique header assembly features capillary action to improve solder joint strength. As a result, pin retention force is 50% higher than that of J-Lead type headers. As the capillary action draws the solder, it pulls the header assembly tightly to the PCB. At the same time, co-planarity problems are eliminated because the force generated by the capillary action also pulls the header into proper position over the solder pad—even if the part has been placed off-center.

A circular solder pad on top of the board and a square solder pad on the bottom are connected to the conductive wall of the plated through-hole. The size of the hole is such that it holds the square pin in place, yet leaves four cavities defined by the flat side of the pin and the curved wall of the hole. The cavities promote capillary action by drawing most of the melted solder up through the cavities where it forms a ring at the top side of the header assembly board. This solder ring is a visual indication that the reflow process is perfect and complete.

Further, because the header base is made of the same material as the PCB, there are no thermally induced stresses on the solder joint—long-term reliability is guaranteed. In addition, deep score lines run across both sides of the header base. The assembly is very flexible and can accommodate board warpage without weakening connections.

To meet varying application requirements, Zierick headers are available with pins missing at specified positions or with pins of different lengths and sizes. Pins are offered in brass or copper, and optional configurations are available.

**Features and benefits of Zierick headers:**
- Co-planarity problems eliminated
- Minimal real estate required on board
- 50% higher pin retention force
- Optional configurations
  - Single row
  - Dual row
  - Horizontal
  - Matrix
- More forgiving board placement tolerances
- Visual indicator assures quality processing
- Highest resistance to thermal shock and thermal cycling due to material selection

The melted solder rises through the cavities and forms a ring at the top.

The capillary action provided by the four cavities (formed between the pin and plated through-hole) will pull up the melted solder, resulting in a stronger solder joint.

This ring indicates that the reflow process is complete.

The pin is soldered into the plated through-hole at the same time the header is soldered to the PCB board.

The force which pulls the melted solder into the cavities will also pull the header board assembly and the PCB together.
0.025" (0.635mm) Square SMT Pin Headers

Recommended Solder Pad Geometry

Solder Paste Over Copper Pad (Crosshatched)

Number of Pins X 0.100 (2.54)

Single Row

Dual Row

PART NUMBERING SYSTEM

H 1 1 0 2 5 0 G

H - Product Code, 1 - Single Row Header, 10 - Ten Pins Per Row
250 - 0.250" (6.35mm) Pin Length, G - Gold Plated

Packaging - Loose Piece or Strip Format

Feeder System - Surf Shooter SMT - Header Feeder. The Header Feeder integrates into standard flexi-ble placement equipment and feeds header strips, then shears and presents individual header assemblies for nozzle pick-up.

U.S. Patent No. 6,402,531 B1

For exact finish specifications and available special finishes, see Finish Table (page 106).
SMT Horizontal Pin Headers

**NOTE:** Drawing is of a horizontal pin header representing a 1x11 SMT Header with one pin missing.
SMT One Pin Header

Combine different components on a single surface mount header to meet your application specific requirements.

SMT Tab and Receptacle Headers

On the top side of the board, there is a small circular solder pad centralized around the plated through-hole allowing for visual confirmation that reflow has taken place.

The plated through-holes are located at the center of a square solder pad on the bottom of the board providing capillary action and a firm solder bond to the PCB pad.
Zierick has applied the benefits of capillary action to our newest interconnect product — the Board Stacking Connector. This unique connector surface mounts to both the bottom and the top of a PCB, allowing for the connection of a mother and daughter board without through-hole pins. The result? Greater PCB design flexibility, more cost-efficiency and a higher quality connection.

Available in bulk, on pallets or on SMT tape, the Board Stacking Connectors use minimal real estate, allowing additional components to be placed on the PCB. They are self-centering and offer co-planarity within 0.001”, virtually eliminating any alignment problems. Plus, they have low contact resistance and a high current rating to meet today’s modular power requirements.

The Board Stacking Connector uses capillary action to provide superior solder joint strength for a more reliable connection. The connectors are first surface-mounted to the mother board. After reflow, the PCB with the connectors are surface-mounted to the daughter board.

Benefits
Zierick’s Board Stacking Connector:

**Provides a cost-efficient board stacking solution.**
- Surface-mounts to the bottom and top of a PCB for a stronger mother board-daughter board connection
- Uses existing placement machines; no need for new insertion systems

**Increases PCB design flexibility.**
- Uses minimal real estate, allowing for more components to be placed on the PCB
- Eliminates the need for through-hole pins

**Allows for a better connection.**
- Provides low contact resistance, high current rating and co-planarity within 0.001”
- Uses capillary action for a stronger solder joint
Surf Shooter SMT Board Stacking Connector Feeder

The Surf Shooter SMT Board Stacking Connector Feeder is designed to mount to a flexible placement system (flex cell) and present the SMT component at feed rates greater than 3 connectors/second. Parts are fed into an escapement where compressed air pushes the board stacking connector into a reservoir that presents the component to the placement system vacuum nozzle.

The unit is compact, less than 4” wide, and easily mounts to the placement system feeder bay. The feeder itself is a self-contained unit, 110 VAC/80 psi, typically requiring no electronic control interface with the placement machine.

The feeder is designed specifically to accommodate the new connectors. High-speed feeders are available for most placement systems.
Zierick offers its newest insulation piercing connector — the SMT Fine Wire Connector. This connector offers a cost-efficient, reliable solution for solid, stranded or tinsel wire terminations. By allowing reliable one-step multiple wire termination within a plastic housing, the connector reduces assembly costs and provides a more durable wire connection.

**Design**

Zierick’s Fine Wire Connector design builds on Insulation Piercing Connector (IPC) technology, which is the ideal method for wire termination. IPC technology allows multiple wires to be terminated simultaneously without being stripped first.

This fine wire IPC connector features a unique design of four wire housing holes and four individual piercing blades that can accommodate solid, stranded or tinsel wire. The piercing blades are made to go in one direction only, and maintain a continuous force on each wire. Its durable plastic housing provides excellent wire retention.

**Assembly Process**

First, these IPC connectors are surface mounted to the PCB. After reflow, the insulated wires are inserted into the holes of the housing. Force is then applied to the top of the plastic housing and the piercing blades cut through the insulation and penetrate into the wire core — completing the wire connection process.

**Benefits**

Zierick’s SMT Fine Wire Connector:

- **Saves you labor time and costs.**
- Eliminates the need to solder wires to the PCB
- Allows for the efficient termination of multiple wires at the same time

**Gives you a higher quality termination.**

- Maintains consistent pressure on the wires for better conductor contact
- Provides superior retention to the board

**Provides a more cost-efficient solution.**

- Uses minimal PCB real estate
- Offers the least expensive method for wire termination

The reliability of the connector assures wire retention and eliminates the need to solder wires directly to the PCB.

The piercing blades accommodate solid, stranded or tinsel wire, and are designed to maintain a continuous force on each wire.
### Physical

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>IPC-4</th>
<th>IPC-4-45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taped Part No.</td>
<td>IPC-4-T</td>
<td>IPC-4-45T</td>
</tr>
<tr>
<td>Dim ‘A’</td>
<td>0.035(0.89)</td>
<td>0.045(1.14)</td>
</tr>
<tr>
<td>Wire Gauge &amp; Insulation Diameter</td>
<td>From 32 AWG to 28 AWG solid, stranded or tinsel wire; with insulation diameter 0.025&quot; — 0.032&quot;</td>
<td>From 32 AWG to 26 AWG solid, stranded or tinsel wire; with insulation diameter 0.032&quot; — 0.045&quot;</td>
</tr>
<tr>
<td>Contact Plating</td>
<td>0.000150&quot; Min 100% Tin over .000100 Min Copper</td>
<td></td>
</tr>
<tr>
<td>Termination Force</td>
<td>Approx. 80 lbs (for 4 wire)</td>
<td></td>
</tr>
<tr>
<td>Contact Material</td>
<td>CDA 260 Brass</td>
<td></td>
</tr>
<tr>
<td>Markings</td>
<td>Z (Zierick logo) and cavity number</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical

| Current Rating/Wire Size | 28 AWG 1.5 Amp., 30 – 32 AWG 1 Amp. | |
| Contact Resistance | > 20 mΩ | |
| Insulation Resistance | > 1 x 10^9 Ω @ 500 VDC | |
| Insulation Material | PPS GS-40 40% glass filled | |
| UL Flammability Rating | 94V-0 | |
| Color | Black | |

### Environmental

| Reflow Temperature | 446° F Max | 230° C Max |
| Operating Temperature | -67° F to 221° F | (-55° C to 105° C) |

### Markings

- Z (Zierick logo) and cavity number

### Coplanarity Line

- Blade Coplanarity to be within 0.005(0.13)
- 0.063(1.60)
- 0.223(5.66)
- 0.225(5.72)
- 0.087(2.21)
- 0.145(3.68)
- 0.062(1.57) prior to insertion

### U.S. Patent(s) pending
Zierick’s Surface Mount IDC was designed to be a more cost-effective way to terminate a wire because it eliminates the need for hand-soldering wires to the PCB. It was also designed to be automated by the customer’s existing pick-and-place equipment using standard taping methods or a special feeder. This is a surface mount version of a proven through-hole version. It is re-usable, has a low profile, and is geographically stable. Our family of SMT IDCs can terminate a large range of wire gauges. It has a proven track record for withstanding shock and vibrations associated with automotive applications.

**SMT IDC Wire Connectors**

**NOTE:** Internal strain relief dimensions dependent on wire/insulation; please consult factory.

---

**Loose Part No.** 1245 1245T

- **Material Thickness/Type**
  - 0.025” (0.64mm) Brass

- **Standard Finish**
  - 100% Tin over Copper

- **Feeder System**
  - N/A Standard 12mm Tape Feeder

- **Wire Gauge Range**
  - #26–18 AWG

- **Wire Insertion Tool**
  - WTP-4ALL: Prototype Tool
  - WTPPS-1235-1: Pneumatic Production Tool

Also available in Carrier Tape (1245T)

**NOTE:** Internal strain relief dimensions dependent on wire/insulation; please consult factory.

---

**Loose Part No.** 1235 1235T

- **Material Thickness/Type**
  - 0.020” (0.50mm) Brass

- **Standard Finish**
  - 100% Tin over Copper

- **Feeder System**
  - N/A Standard 12mm Tape Feeder

- **Wire Gauge Range**
  - #26–30 AWG

- **Wire Insertion Tool**
  - WTPPS-1235-1: Pneumatic Production Tool

Also available in Carrier Tape (1235T)

**U.S. Patent No. 5,022,868 and other international patents**

---

PRINT MODIFIED for PN 1235, 1235T

Reverse Mount SMT IDC

**NOTE:** Internal strain relief dimensions dependent on wire/insulation; please consult factory.

**Recommended Pad Geometry**

- 0.370 (9.40)
- 0.140 (3.55)
- 0.018 (0.45)
- 0.220 (5.59)
- 0.010 (0.25)
- 0.095 (2.41)
- 0.080 (2.03)
- 0.400 (10.31)
- 0.240 (6.09)
- 0.01 (0.25)
- 0.220 (5.58)
- 0.140 (3.56)
- 0.265 (6.73)
- 0.010 (0.25)
- 0.100 (2.54) Max Typ
- 0.050 (1.27) Inside Bend
- 0.140 (3.55) Sq
- R 0.020 (0.50) Max Typ
- 0.010 (0.25) Max Beam Gap
- 0.090 (2.28)
- 0.010 Ref
- 0.090 (2.29)
- 0.210 (5.33)
- 0.170 (4.31)
- 0.240 (6.09)
- 0.080 (2.03)
- 0.140 (3.56)
- Solder Paste Over Copper Pad (Crosshatched)
- Fully Sheared Termination Slot
- 0.065 (1.65)
- Note: Solder paste on Copper Pad (Crosshatched)
- Solder Paste To be 0.008 (0.20) Inch Thick
- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)
- 0.020 (0.50) Sq
- 0.160 (4.06) Sq
- 0.008 (0.20) Inch Thick
- 0.453 (11.51)
- 0.315 (8.00)
- 0.140 (3.55) Sq
- 0.090 (2.29)
- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)

**Suggested Copper Pad Layout for Horizontal Mount**

- 0.065 (1.65)
- 0.090 (2.29)
- 0.140 (3.56)
- 0.265 (6.73)
- Solder Paste Over Copper Pad (Crosshatched)
- Note: Reflow part with seam down

**Suggested Copper Pad Layout for Vertical Mount**

- 0.220 (5.58)
- 0.160 (4.06) Sq
- 0.315 (8.00)
- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)

**Feeder System**

- Surf-Shooter SMT – Continuous Strip

**Material Thickness/Type**

- 0.032” (0.81mm)

**Standard Finish**

- 100% Tin over Copper

**Wire Gauge Range* #26–18 AWG**

**U.S. Patent No. 5,022,868 and other international patents**

---

SMT Wire Gripper

**Loose Part No.**

- 1227

**Reeled Part No.**

- 6227

**Taped Part No.**

- 1262T
- 1262TH

**Mating Terminal Size**

- 0.025” (0.64mm) square or
- 0.032” (0.81mm) round pin

**Material Thickness/Type**

- 0.008” (0.20mm) Phosphor Bronze

**Standard Finish**

- 100% Tin over Copper

**Feeder System**

- Surf-Shooter SMT – Continuous Strip
  - Standard 24mm Tape Feeder

---

*Note: Wire insertion tool required. Consult factory.

**Suggested Copper Pad Layout for Horizontal Mount**

- 0.10 (2.54) Max Typ
- 0.050 (1.27) Inside Bend
- 0.140 (3.55) Sq
- R 0.020 (0.50) Max Typ

**Suggested Copper Pad Layout for Vertical Mount**

- 0.220 (5.58)
- 0.160 (4.06) Sq
- 0.315 (8.00)
- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)

---

**Note:**

- Made in U.S.A.
- 131 Radio Circle, Mount Kisco, NY 10549
- 800-882-8020 • 914-666-2911 • Fax: 914-666-0216
- www.zierick.com
**SMT Jumper**

**Loose Part No.** 1179 1179T

**Reeled Part No.** 6179 N/A

**Material Thickness/Type**
- 0.020" (0.50mm) Copper
- 0.020" (0.50mm) Copper

**Standard Finish** 100% Tin over Copper

**Feeder System**
- Surf-Shooter SMT – Continuous Strip
- Standard 24mm Tape Feeder

---

**Recommended Pad Geometry**

Solder Paste Over Copper Pad (Crosshatched)

---

**SMT (Variable Size) Jumper**

**Standard Reeled Part No.** 6233-AAAA-140

**Other Reeled Part No.** 6233-AAAA-BBB

**Material Thickness/Type** 0.020" (0.50mm) Copper

**Standard Finish** 100% Tin Over Copper

**Feeder System** Standard 24mm Tape Feeder

---

**Dim 'A'** 0.300" (7.62mm) 0.075" (1.91mm) 6233-300-075
**Dim 'B'** 1.500" (38.1mm) 0.200" (5.08mm) 6233-1500-200

**Corres. part no.**
- Minimum: 6233-300-075
- Maximum: 6233-1500-200

**Where Dimension 'A' = jumper length and Dimension 'B' = jumper width**

---

No additional charge for any other length jumper up to 2". Standard width for all lengths is 0.140". Consult factory for other widths and for feeder.

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U.S. Patent No. 5,695,848 and other U.S. and international patents
For exact finish specifications and available special finishes, see Finish Table (page 106).
Zierick’s family of SMT receptacles provides a range of options designed to lower manufacturing costs, simplify assembly, and increase productivity. In addition to Standard Receptacles, Zierick recently expanded its product line with Surface Mount Box Receptacles, increasing your options for flexibility and compatibility.

**Standard Surface Mount Receptacles:**
- The 1237 top-entry Universal Tab Receptacle
- The 1238 bottom-entry Universal Tab Receptacle

Both Standard Receptacles accommodate a mating terminal size of 0.025” (0.64mm) to 0.032” (0.81mm) thickness. The receptacles will tolerate a lateral misalignment of ±0.012” (0.30mm), and an angular misalignment of ±10°. Constructed of brass, the receptacles have a material thickness of 0.016” (0.41mm) and have a standard finish of 100% tin over copper.

**Surface Mount Box Receptacles:**
- The 1266, which accepts top-entry or an alternative bottom-entry to mate with a through-board pin
- The 1277 accepts top- or bottom-entry, and can be placed in either vertical or horizontal position
- The 1262, which offers traditional placement, and can be placed upside-down for bottom-entry. A special version of this terminal can be used in a wire gripper application to grip and hold a 14 AWG wire

The flexibility of these receptacles provides a number of important benefits in addition to placement and entry options. A small footprint and low insertion force ensure efficiency of use. Twelve or more available mating cycles increase productivity in demanding environments. Continuous reel production eliminates time-consuming hand placement and expensive fixtures by utilizing the Surf-Shooter SMT Feeder and existing placement systems.

**Surface Mount Clips**

Zierick’s SMT Receptacle family of products also includes SMT Clips — A versatile line of receptacles with Surf-Shooter SMT continuous strip compatibility.

The Snap-In Fuse Clip employs a spring-loaded mounting leg, and is proven to display increased retention, strength, and durability while withstanding side loading and rough PCB handling. Both Snap-In and Standard Fuse Clips are available in loose-piece format — with or without integral fuse stops — for 1/4” (6.35mm) and 0.197” (5mm) cylindrical fuse styles.
SMT Top- or Horizontal-Entry Universal Tab Receptacle

Loose Part No. 1237 1237T

Mating Terminal Size 0.025" (0.64mm) to 0.032" (0.81mm) thick

Material Thickness/ Type 0.016" (0.41mm) Brass

Standard Finish 100% Tin over Copper

Feeder System Consult factory for Surf-Shooter SMT and continuous strip P/N 6237

Recommended Pad Geometry

Also available in Carrier Tape (1237T) (for 16mm Tape Feeder)

SMT Bottom- or Horizontal-Entry Universal Tab Receptacle

Loose Part No. 1238 1238T

Mating Terminal Size 0.025" (0.64mm) to 0.032" (0.81mm) thick

Material Thickness/ Type 0.016" (0.41mm) Brass

Standard Finish 100% Tin over Copper

Feeder System Consult factory for Surf-Shooter SMT and continuous strip P/N 6238

Recommended Pad Geometry

Also available in Carrier Tape (1238T) (for 16mm Tape Feeder)

PRINT MODIFIED for PN 1238, 1238T
SMT Dual Entry Box Receptacle

Loose Part No. 1266
Reeled Part No. 6266

Mating Terminal Size 0.025” (0.64mm) square or 0.032” (0.81mm) round pin

Material Thickness/Type 0.008” (0.20mm) Phosphor Bronze

Standard Finish 100% Tin over Copper

Feeder System Surf-Shooter SMT – Continuous Strip

SMT Top- or Bottom-Entry Box Receptacle

Loose Part No. 1262
Reeled Part No. 6262
Taped Part No. 1262T 1262TH

Mating Terminal Size 0.025” (0.64mm) square or 0.032” (0.81mm) round pin

Material Thickness/Type 0.008” (0.20mm) Phosphor Bronze

Standard Finish 100% Tin over Copper

Feeder System Surf-Shooter SMT – Continuous Strip Standard 12mm Tape Feeder

Suggested Copper Pad Layout for Vertical Mount

Suggested Copper Pad Layout for Horizontal Mount

Note: Reflow part with seam down
SMT Vertical or Horizontal Box Receptacle

Loose Part No. 1277
Reeled Part No. 6277
Taped Part No. 1277-TH for Horizontal Placement
1277-TV-G for Gripper Pick-Up
1277-TV-N for Nozzle Pick-Up

Mating Terminal Size

0.025" (0.64mm) square or round pin

Material Thickness/Type

0.005" (0.20mm) Phosphor Bronze

Standard Finish

100% Tin over Copper

Feeder System

Loose: Standard 16mm Tape Feeder for PN 1277-TH. Standard 24mm Tape Feeder for PN 1277-TV-G and PN 1277-TV-N
Reeled: Consult Factory for Feeder

Recommended SMT Pad Geometry

SMT Clips

Loose Part No. 1230 1230T 1184 1184T
Reeled Part No. 6230 6184

Dim ‘A’

0.165" (4.19mm) 0.090" (2.29mm)

Material Thickness/Type

0.016" (0.40mm) Phosphor Bronze

Standard Finish

100% Tin over Copper

Feeder System

Surf Shooter SMT – Continuous Strip

Also available in Carrier Tape (1230T or 1184T) (for 16mm Tape Feeder)

PRINT MODIFIED for PN 1230, 1230T, 6230, 1184, 1184T, 6184
5mm Round Fuse Receptacles

**Loose Part No.** 1230 1230T  
**Reeled Part No.** 6230  
**Dim 'A'** 0.165" (4.19mm)  
**Material Thickness/Type** 0.016" (0.40mm) Phosphor Bronze  
**Standard Finish** 100% Tin over Copper  
**Feeder System** Surf Shooter SMT – Continuous Strip

PRINT MODIFIED for PN 1230, 1230T, 6230  

---

**Auto Fuse Receptacle**

**Loose Part No.** 1237 1237T  
**Mating Terminal Size** 0.025" (0.64mm) to 0.032" (0.81mm) thick  
**Material Thickness/Type** 0.016" (0.41mm) Brass  
**Standard Finish** 100% Tin over Copper  
**Feeder System** Consult factory for Surf-Shooter SMT and continuous strip P/N 6237

PRINT MODIFIED for PN 1237, 1237T  
As part of the SMT Receptacle line of products, Zierick’s SMT Socket delivers high performance, flexibility, and a number of other benefits, all in an extremely compact size for a through-board socket.

Designed to handle high current ratings — up to 7 amps — this small footprint, low profile receptacle delivers significant reliability for surface mount application needs.

Another primary benefit of the SMT Socket is its flexibility. Its superior capacity accommodates either a power or signal connection. With the ability to handle a high number of mating cycles, it is ideal for demanding production environments and high density applications.

The SMT Socket’s versatility is also demonstrated through its compatibility. Mating pin sizes for the SMT Socket include 0.025” square and 0.027” to 0.032” diameter round pins. The material is 0.005” thick beryllium copper with a bright tin finish.

The SMT Socket is available in tape and reel, allowing the use of a standard pick-and-place tape feeder, and taking advantage of Zierick’s ability to provide quality parts in a standard taped pocket format. The socket is also available in bulk.

---

### Loose Part No.
1260

### Taped Part No.
1260T

### Mating Pin Size
- 0.025” (0.64mm) Square or 0.025” (0.64mm) to 0.032” (0.81mm) Dia Round Pins

### Material Thickness/Type
- 0.005” (0.13mm) Beryllium Copper

### Standard Finish
- Bright Tin over Copper

### Feeder System
- Standard Tape Feeder for Taped Parts

---

The SMT Socket 1260 offers a bottom-entry, through-board connection with a small footprint and the ability to handle high current ratings—up to 7 amps.

---

**Contact Information:**
131 Radio Circle, Mount Kisco, NY 10549
800-882-8020 • 914-666-2911 • Fax: 914-666-0216
www.zierick.com

Made in U.S.A.
**SMT Bottom Entry, Through-Board Socket**

**Loose Part No.** 1280  
**Taped Part No.** 1280T  
**Mating Pin Size** 0.038–0.044" (0.97–1.12mm) Dia Round Pins  
**Material Thickness/Type** 0.005" (0.13mm) Beryllium Copper  
**Standard Finish** Bright Tin over Copper  
**Feeder System** Standard Tape Feeder for Taped Parts

Also available in Carrier Tape (1280T) (for 16mm Tape Feeder)

**Contact Placement Schema**

**SMT Bottom Entry, Through-Board Socket**

**Loose Part No.** 1279  
**Taped Part No.** 1279T  
**Mating Pin Size** 0.062–0.066” (1.57–1.68mm) Dia Round Pins  
**Material Thickness/Type** 0.005" (0.13mm) Beryllium Copper  
**Standard Finish** Bright Tin over Copper  
**Feeder System** Standard Tape Feeder for Taped Parts

Also available in Carrier Tape (1279T) (for 16mm Tape Feeder)

**Contact Placement Schema**
High Performance Receptacles

In newer automotive applications, operating temperatures and power throughput are steadily increasing. Most of today’s terminals designed for such demanding applications are made of beryllium copper, which is very expensive. Zierick’s response is a new family of economically priced High Performance Terminals. These components can operate at higher temperatures and have a higher current rating than their standard equivalents.

They are stamped from an alloy with high temperature, high conductivity and improved stress relaxation properties. The stress relaxation feature is far superior to that of cartridge brass in elevated temperatures and heating applications.

This material easily lends itself to being used with our existing tooling and fabrication methods with little or no additional cost to the custom receptacle is required.

Stress relaxation is a critical inherent property of the material since the spring design feature in many receptacles is needed to maintain reliable connections at elevated temperatures. The tables below illustrate the various physical attributes of Alloy C7025.

All high performance terminals are a special order.
Please call Zierick for more information.
### High Performance SMT Box Receptacle

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Taped Part No.</th>
<th>Mating Terminal Size</th>
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<tbody>
<tr>
<td>1275</td>
<td>6275</td>
<td>1275T</td>
<td>0.025&quot; (0.64mm) and 0.032&quot; (0.81mm) Round or Square</td>
</tr>
</tbody>
</table>

### Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Mating Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Mount</td>
<td>Top and Bottom</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Thickness/Type</th>
<th>Applicator System</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.010 (0.25mm) Alloy C7025</td>
<td>Surf Shooter Continuous Strip</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose: 100% Tin over Copper</td>
</tr>
<tr>
<td>Reeled: 100% Tin over Copper</td>
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</tbody>
</table>

### Performance Data

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>Resistance Rating</th>
<th>Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Ampere</td>
<td>10mΩ Max</td>
<td>Up to 175°C</td>
</tr>
</tbody>
</table>

### Suggested Copper Pad Layout for Horizontal Mount

- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)

### Suggested Copper Pad Layout for Vertical Mount

- Solder Paste Over Copper Pad (Crosshatched)
- Solder Mask Over Copper (White)

Note: Reflow part with seam down
### High Performance Universal Tab Through-Hole Technology Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1092-HTA</td>
<td>6092-HTA</td>
<td>0.025&quot; (0.64mm) and 0.032&quot; (0.81mm)</td>
</tr>
</tbody>
</table>

**Application**
- Top and Horizontal

**Mounting Type**
- Accu-Lok™ "Split Leg"
- Material Thickness/Type: 0.016" (0.41mm) / Alloy C7025
- System: Loose: ZPT81-1092, Reeled: Model 9700, 9718
- Standard Finish: Loose: 100% Tin over Copper, Reeled: 100% Tin over Copper

**Performance Data**
- **Current Rating**: 30 Ampere
- **Resistance Rating**: 10mΩ Max
- **Temperature Rating**: Up to 175°C

**Typical PCB Mounting**
- Mating Terminal Dimension
- PCB Cut-Out: 0.080 (2.03) To Edge of PCB
- Typical Misalignment:
  - Lateral: ±0.012 (0.30)
  - Angular: ±10°

**Typical Edge Board Horizontal Mating**
- PCB Cut-Out: 0.068 (1.72)
- Mating Terminal Dimension: 0.164 (4.17)
- Typical Misalignment:
  - Lateral: 0.060 (1.52)
  - Angular: 0.040 (1.02)

**Typical Bottom & Horizontal Entry Mating**
- PCB Cut-Out: 0.063 (1.60)
- Mating Terminal Dimension: 0.150 (3.81)
- Typical Misalignment:
  - Lateral: 0.036 (0.92)
  - Angular: 0.040 (1.02)

**U.S. Patent No. 5,017,159**

Optional use as ATC (Auto) fuse holder
Board Stuffing Service

If your annual terminal usage is so low that you cannot justify the purchase of a terminal insertion machine, or if you have a work overload, Zierick has an alternative. We can insert Zierick terminals into your printed circuit board per your individual requirement.

All you have to do is ship us your bare boards, and we will insert all the Zierick terminals you need. Our Quality Control department will carefully inspect and certify these boards to assure they are within specifications.

Then we ship the completed boards back to you for further processing. **Your savings:** capital equipment investment, large terminal inventory, and the need to use your own personnel to do the job.

Send a print of your board with the part numbers of the Zierick terminals required clearly marked to: Zierick Board Stuffing Service, 131 Radio Circle, Mount Kisco, NY 10549. Include the number of boards you are expecting to need and we will provide you with a quote.

We can populate your boards with our standard Quick Disconnect Tabs, Insulation Displacement Connectors, Box Receptacles, Test Point Terminals, Universal Tab Receptacles, Fuse Receptacles, Fuse Clips, Wire Grippers or Posts.

Your Printed Circuit Boards will be handled with the utmost of care by our experienced staff. From receipt of your boards, through the population process, to packing and shipping, your satisfaction is our number one concern.

Zierick's family of automated and semi-automated terminal insertion systems is known for its reliability. Combine this with our knowledgeable applicator service department for a trouble-free experience. Our machines provide a great range of functionality and flexibility so that your job will be done quickly and reliably. Our machines can handle Printed Circuit Board Panels up to 12" x 12" in size.
Through-Hole Connectors

Whether your Through-Hole Technology applications require a Quick Disconnect Tab, an Insulation Displacement Connector, a Test Point Terminal, a Screw Terminal, a Receptacle, a Post, or a Multi-Layer Circuit Board Connector, we can fulfill your needs. Zierick’s unique features solve your most difficult interconnection problems.

The Accu-Lok™ mounting ends the need for the tight mounting hole tolerance required with traditional press and compliant fit terminals.

The Accu-Lok™ retentive mounting feature produces exceptional PCB assembly and interconnection integrity.

Zierick’s Torsion-Lok™ insulation displacement connector (IDC) allows connection and insulation shear in one motion, eliminating pre-stripping.

Stable-Lok™ actually doubles terminal strength against deflection or fracture.

Zierick’s TapeResist solder masking technology is a remarkable advancement for PCB assembly as it utilizes pre-applied polyester film as the solder resist agent.

Snap-In fuse clips provide improved retention due to Zierick’s exclusive spring-load mounting technology.

Accu-Pak™ PCB mountable receptacles are an optimum choice for high quality, reliable PCB-to-PCB, PCB-to-Component and PCB-to-Lead Wire interconnections.
Zierick has increased the reliability of quick disconnect terminals with patented Stable-Lok™ and Accu-Lok™ mounting. Designed to deliver greater terminal mounting strength, these particular unique features are available only from Zierick, and are available on most standard Zierick quick disconnects.

Stable-Lok™ PCB quick disconnects actually double terminal strength against fracture or mounting leg breakage. The Stable-Lok™ concept shifts pivot points to outer mounting areas for a stabilizing resistive torque. Stable-Lok™ terminals are available in 0.187” (4.75mm), 0.205” (5.21mm), and 0.250” (6.35mm) application sizes.

Accu-Lok™ mounting is designed for 0.110” (2.79mm) applications. With Accu-Lok™, PCB retention is not dependent on tight mounting hole tolerances. Instead, the terminal leg enters freely within the hole, with retention accomplished through a controlled splitting and forming of the leg. This eliminates stress and withstands repeated mating, withdrawal, and shock.

Hole diameter tolerances may be as great as ±0.004” (±0.10mm) for either Accu-Lok™ or splay mounting types.

Zierick quick disconnects are manufactured to NEMA, UL, and CSA specifications. They are available in vertical or horizontal configurations, loose or reeled. Assembly can be accomplished with Zierick hand tools or Zierick semi-and fully-automated applicators.

- Zierick quick disconnect terminals are available in 0.110” (2.79mm), 0.187” (4.75mm), 0.205” (5.21mm), and 0.250” (6.35mm) sizes.

- All brass terminals have a copper under plating for improved solderability over time.

- Terminals are available in loose or reeled formats, and in vertical or horizontal configurations.

- Stable-Lok™ and Accu-Lok™ terminals mount securely in holes with a diameter tolerance of ±0.003” (±0.076mm).

- Stable-Lok™ and Accu-Lok™ mounting reduces the instances of fractured or misaligned solder joints.

- Assembly is achieved with Zierick semi- or fully-automatic applicators.

Only Zierick quick disconnects offer the Stable-Lok™ mounting option, which doubles terminal strength. Stress-free Accu-Lok™ mounting is also available only from Zierick.

Accu-Lok™
U.S. Patent No. 5,017,159

Accu-Lok™ is a trademark of Zierick Manufacturing Corporation and a patented product of Zierick Manufacturing Corporation. U.S. Patent No. 5,017,159.
### Loose Part No. 1063 1064
### Reeled Part No. 6063 6064
### Mounting Type Accu-Lok™ Splay Accu-Lok™ Splay
### Material Thickness/Type 0.020" (0.51mm) 0.032" (0.81mm) 0.032" (0.81mm) Brass
### Standard Finish Loose: 100% Tin over Copper Reeled: 100% Tin over Copper Reeled: 100% Tin over Copper
### Mounting Hole Diameter 0.055"±0.003" (1.40mm±0.076mm) 0.061"±0.003" (1.55mm±0.076mm)
### Applicator System Loose: ZPT81-A Reeled: Model 9700, 9700 XY

**U.S. Patent No. 5,017,159**

For exact finish specifications and available special finishes, see Finish Table (page 106).

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### Loose Part No. 834 835
### Reeled Part No. 6834 6835
### Mounting Type Press-Fit Press-Fit
### Material Thickness/Type 0.020" (0.51mm) 0.032" (0.81mm) 0.032" (0.81mm) Brass
### Standard Finish Loose: 100% Tin over Copper Reeled: 100% Tin over Copper Reeled: 100% Tin over Copper
### Mounting Hole Diameter 0.044"±0.003" (1.12mm±0.076mm) 0.050"±0.003" (1.27mm±0.076mm)
### Applicator System Loose: ZPT81-A Reeled: Model 7000, 9700, 9700 XY

**U.S. Patent No. 5,017,159**

For exact finish specifications and available special finishes, see Finish Table (page 106).

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### Loose Part No. 1201
### Reeled Part No. 6201
### Mounting Type Accu-Lok™ Splay
### Material Thickness/Type 0.032" (0.81mm) Brass
### Standard Finish Loose: 100% Tin over Copper Reeled: 100% Tin over Copper
### Mounting Hole Diameter 0.055"±0.003" (1.40mm±0.076mm)
### Applicator System Loose: ZPT81-A Reeled: Model 9700, 9700 XY

**U.S. Patent No. 5,017,159**

For exact finish specifications and available special finishes, see Finish Table (page 108).
### 0.110" (2.79mm) Tabs / Quick Disconnect Terminals

| Loose Part No. | 948 | 949 |
| Reeled Part No. | (See Below) | (See Below) |
| Mounting Type | Outward or Inward Splay | Outward or Inward Splay |
| Material Thickness/ Type | 0.032" (0.81mm) Brass | 0.020" (0.51mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003" (1.47mm ±0.076mm) | 0.050" ±0.003" (1.27mm ±0.076mm) |
| Applicator System | Loose: ZPT92-110 |

For exact finish specifications and available special finishes, see Finish Table (page 106).

### 0.125" (3.18mm) Tabs / Quick Disconnect Terminals

| Loose Part No. | N/A | N/A |
| Reeled Part No. | 6948 | 6949 |
| Mounting Type | Outward or Inward Splay | Outward or Inward Splay |
| Material Thickness/ Type | 0.032" (0.81mm) Brass | 0.020" (0.51mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003" (1.47mm ±0.076mm) | 0.050" ±0.003" (1.27mm ±0.076mm) |
| Applicator System | Loose: ZPT92-110 |

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.163" (4.14mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
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<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6267</td>
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<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
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<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
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<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
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<tr>
<td>Mounting Hole Diameter</td>
<td>0.0658 ±0.0033&quot; (1.47mm ±0.076mm)</td>
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<tr>
<td>Applicator System</td>
<td>Model 9700, 9700 XY</td>
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</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

0.187" (4.75mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1027</th>
<th>1024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6027</td>
<td>6024</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Stable-Lok™ Splay Outward or Inward Splay Stable-Lok™ Splay Outward or Inward Splay</td>
<td></td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>Brass Brass</td>
<td></td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper Reeled: 100% Tin over Copper</td>
<td></td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.0658 ±0.0033&quot; (1.47mm ±0.076mm) 0.0658 ±0.0033&quot; (1.47mm ±0.076mm)</td>
<td></td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A Reeled: Model 9700, 9700 XY Reeled: Model 9700, 9700 XY</td>
<td></td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.187" (4.75mm) Tabs / Quick Disconnect Terminals

Loose Part No. N/A
Reeled Part No. 6282
Mounting Type Stable-Lok™ Splay Outward or Inward
Material Thickness/ Type 0.020" (0.51mm) Brass
Standard Finish Reeled: 100% Tin over Copper
Mounting Hole Diameter 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Reeled: Model 9700, 9700 XY

PRINT MODIFIED for PN 6282

For exact finish specifications and available special finishes, see Finish Table (page 106).

Loose Part No. N/A N/A
Reeled Part No. 6134 6142
Mounting Type Outward or Inward Splay Outward or Inward Splay
Material Thickness/ Type 0.020" (0.51mm) Brass 0.032" (0.81mm) Brass
Standard Finish Reeled: 100% Tin over Copper
Mounting Hole Diameter 0.050° ±0.003° (1.27mm ±0.076mm) 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Reeled: Model 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).

Loose Part No. N/A 1141
Reeled Part No. 6140 6141
Mounting Type Stable-Lok™ Splay Outward or Inward Stable-Lok™ Splay Outward or Inward
Material Thickness/ Type 0.020" (0.51mm) Brass 0.032" (0.81mm) Brass
Standard Finish Loose: 100% Tin over Copper Reeled: 100% Tin over Copper
Mounting Hole Diameter 0.050° ±0.003° (1.27mm ±0.076mm) 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Loose: ZPT81-A Reeled: Model 9700, 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).
**0.187" (4.75mm) Tabs / Quick Disconnect Terminals**

| Loose Part No. | N/A | 1077 |
| Reeled Part No. | 6078 | 6077 |
| Mounting Type | Outward or Inward Splay | Outward or Inward Splay |
| Material Thickness/Type | 0.020" (0.51mm) | 0.032" (0.81mm) |
| Standard Finish | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.050" ±0.003" (1.27mm ±0.076mm) | 0.058" ±0.003" (1.47mm ±0.076mm) |
| Applicator System | Loose: ZPT81-A | Reeled: Model 7000, 9700, 9700 XY |

For exact finish specifications and available special finishes, see Finish Table (page 106).

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| Loose Part No. | 1042 |
| Reeled Part No. | 6042 |
| Mounting Type | Stable-Lok™ Splay Outward or Inward |
| Material Thickness/Type | 0.032" (0.81mm) |
| Standard Finish | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003" (1.47mm ±0.076mm) |
| Applicator System | Loose: ZPT81-A | Reeled: Model 7000, 9700, 9700 XY |

For exact finish specifications and available special finishes, see Finish Table (page 106).

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| Loose Part No. | 1172 |
| Reeled Part No. | 6172 |
| Mounting Type | Stable-Lok™ Splay Outward or Inward |
| Material Thickness/Type | 0.032" (0.81mm) |
| Standard Finish | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003" (1.47mm ±0.076mm) |
| Applicator System | Loose: ZPT81-A | Reeled: Model 9700, 9700 XY |

For exact finish specifications and available special finishes, see Finish Table (page 106).
### 0.187" (4.75mm) Tabs / Quick Disconnect Terminals

**Loose Part No.**: 1166

**Reeled Part No.**: 6166

**Mounting Type**: Stable-Lok™ Splay Outward or Inward

**Material Thickness/Type**: 0.020" (0.51mm) Brass

**Standard Finish**: Loose: 100% Tin over Copper

Reeled: 100% Tin over Copper

**Mounting Hole Diameter**: 0.058" ±0.003" (1.47mm ±0.076mm)

**Applicator System**: Loose: ZPT81-A

Reeled: Model 9700, 9700 XY

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For exact finish specifications and available special finishes, see Finish Table (page 106).
### 0.187" (4.75mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>956/956-No Hole 957</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.020&quot; (0.51mm) Brass 0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.050&quot; ±0.003&quot; (1.27mm ±0.076mm) 0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
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<tr>
<td>Applicator System</td>
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</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

### 0.205" (5.21mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1066 1065</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6066 6065</td>
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<tr>
<td>Mounting Type</td>
<td>Stable-Lok™ Splay Outward or Inward</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.020&quot; (0.51mm) Brass 0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.050&quot; ±0.003&quot; (1.27mm ±0.076mm) 0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

### 0.187" (4.75mm) and 0.205" (5.21mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>893 892</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>N/A N/A</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.020&quot; (0.51mm) Brass 0.032&quot; (0.81mm) Brass</td>
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<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.050&quot; ±0.003&quot; (1.27mm ±0.076mm) 0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
## 0.236" (5.99mm) Tabs / Quick Disconnect Terminals

| Loose Part No. | 1115 |
| Reeled Part No. | 6115 |
| Mounting Type | Outward or Inward Splay |
| Material Thickness/Type | 0.032" (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper<br>Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003"<br>(1.47mm ±0.076mm) |
| Applicator System | Loose: ZPT81-A<br>Reeled: Model 7000, 9700, 9700 XY |

For exact finish specifications and available special finishes, see Finish Table (page 106).

## 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

| Loose Part No. | 1021 | 1198 |
| Reeled Part No. | 6021 | 6198 |
| Feature 'B' | 0.070" (1.78mm) Hole<br>0.070" (1.78mm) Dimple |
| Dim 'A' | 0.134" (3.40mm)<br>0.160" (4.06mm) |
| Mounting Type | Stable-Lok™ Splay<br>Outward or Inward |
| Material Thickness/Type | 0.032" (0.81mm) Brass |
| Standard Finish | Loose: 100% Tin over Copper<br>Reeled: 100% Tin over Copper |
| Mounting Hole Diameter | 0.058" ±0.003"<br>(1.47mm ±0.076mm) |
| Applicator System | Loose: ZPT81-A<br>Reeled: Model 7000, 9700, 9700 XY |

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.250" (6.35mm) Tabs / Quick Disconnect Terminals

### Loose Part No. 836
- **Reeled Part No.** 836-Tape
- **Mounting Type** Outward or Inward Splay
- **Material Thickness/Type** 0.032" (0.81mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mounting Hole Diameter** 0.058" ±0.003" (1.47mm ±0.076mm)
- **Applicator System** Loose: ZPT81-A
  Reeled: Model 7000, 9700, 9700 XY, 9718

For exact finish specifications and available special finishes, see Finish Table (page 106).

### Loose Part No. 1060
- **Reeled Part No.** 6060
- **Mounting Type** Stable-Lok™ Splay Outward or Inward
- **Material Thickness/Type** 0.032" (0.81mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mounting Hole Diameter** 0.058" ±0.003" (1.47mm ±0.076mm)
- **Applicator System** Loose: ZPT81-A
  Reeled: Model 7000, 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).

### Loose Part No. 906
- **Reeled Part No.** N/A
- **Mounting Type** Outward or Inward Splay
- **Material Thickness/Type** 0.032" (0.81mm) Brass
- **Standard Finish** 100% Tin over Copper
- **Mounting Hole Diameter** 0.058" ±0.003" (1.47mm ±0.076mm)
- **Applicator System** Loose: ZPT81-A

For exact finish specifications and available special finishes, see Finish Table (page 106).
### 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

#### Loose Part No.
- **1045**
- **1041**
- **1057**

#### Reeled Part No.
- **6045**
- **6041**
- **6057**

#### Mounting Type
- Stable-Lok™ Splay Outward or Inward
- Stable-Lok™ Splay Outward or Inward
- Stable-Lok™ Splay Outward or Inward

#### Material Thickness/Type
- 0.032" (0.81mm) Brass
- 0.032" (0.81mm) Brass
- 0.032" (0.81mm) Brass

#### Standard Finish
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper

#### Mounting Hole Diameter
- 0.058" ±0.003" (1.47mm ±0.076mm)
- 0.058" ±0.003" (1.47mm ±0.076mm)
- 0.058" ±0.003" (1.47mm ±0.076mm)

#### Applicator System
- Loose: ZPT81-A
- Reeled: Model 7000, 9700, 9700 XY
- Loose: ZPT81-A
- Reeled: Model 7000, 9700, 9700 XY
- Loose: ZPT81-A
- Reeled: Model 7000, 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).
### 0.250" (6.35mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
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<td>Reeled Part No.</td>
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<td>Mounting Type</td>
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<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
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<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
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<tr>
<td>Mounting Hole Diameter</td>
<td>0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A Reeled: Model 7000, 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

<table>
<thead>
<tr>
<th>Loose Part No.</th>
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<tbody>
<tr>
<td>Reeled Part No.</td>
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<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6212</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Stable-Lok™ Splay Outward or Inward</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Reeled: Model 7000, 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.250" (6.35mm) Tabs / Quick Disconnect Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>953-MOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>N/A</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058° ±0.003° (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1113</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6113</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058° ±0.003° (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1112</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6112</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058° ±0.003° (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-A Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.250" (6.35mm) Tabs / Quick Disconnect Terminals

Loose Part No.  953
Reeled Part No. N/A
Mounting Type  Outward or Inward Splay
Material Thickness/Type  0.032" (0.81mm)  Brass
Standard Finish  100% Tin over Copper
Mounting Hole 0.068" ±0.003" (1.73mm ±0.076mm)
Applicator System  Loose: ZPT81-A

For exact finish specifications and available special finishes, see Finish Table (page 106).

Loose Part No.  N/A
Reeled Part No.  6110
Mounting Type  Outward Splay
Material Thickness/Type  0.032" (0.81mm)  Brass
Standard Finish  Reeled: 100% Tin over Copper
Mounting Hole 0.068" ±0.003" (1.73mm ±0.076mm)
Applicator System  Reeled: Model 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).

Loose Part No.  1173
Reeled Part No.  6173
Mounting Type  Stable Lok™ Splay Outward or Inward
Material Thickness/Type  0.032" (0.81mm)  Brass
Standard Finish  Loose: 100% Tin over Copper
Reeled: 100% Tin over Copper
Mounting Hole 0.068" ±0.003" (1.73mm ±0.076mm)
Applicator System  Loose: ZPT81-A
Reeled: Model 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.250" (6.35mm) Tabs / Quick Disconnect Terminals

For exact finish specifications and available special finishes, see Finish Table (page 106).

Loose Part No. 1131
Reeled Part No. N/A
Mounting Type Outward or Inward Splay
Material Thickness/Type 0.032" (0.81mm) Brass
Standard Finish Loose: 100% Tin over Copper
Mounting Hole Diameter 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Loose: ZPT81-1131

Loose Part No. 901
Reeled Part No. (see P/N 6901)
Mounting Type Outward or Inward Splay
Material Thickness/Type 0.032" (0.81mm) Brass
Standard Finish 100% Tin over Copper
Mounting Hole Diameter 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Loose: ZPT92-250

Loose Part No. (see P/N 901)
Reeled Part No. 6901
Mounting Type Outward or Inward Splay
Material Thickness/Type 0.032" (0.81mm) Brass
Standard Finish Reeled: 100% Tin over Copper
Mounting Hole Diameter 0.058° ±0.003° (1.47mm ±0.076mm)
Applicator System Reeled: Model 9700, 9700 XY

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.250" (6.35mm) Tabs / Quick Disconnect Terminals

Zierick Manufacturing Corporation is pleased to advise that the majority of our quick disconnect tabs are recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories, Inc. The Component Program of Underwriters Laboratories, Inc. assures that quick disconnect terminals meet the requirements of the Underwriters Laboratories, Inc. specification number UL310. As such, they meet the dimensional and performance requirements of the National Electrical Manufacturers Association specification number NEMA2-1982 (1988) covering Residential Controls – Quick Disconnect Terminals.

For a complete listing of Zierick's UL recommended Quick Disconnect terminals, visit the UL website, www.ul.com, and click on ‘Certifications’. Under ‘General Search’ select ‘UL File Number’, then key in Zierick’s UL File, Number E146208.

Underwriters Lab
Test Point Terminals with Accu-Lok™ or Press-Fit Mounting

Zierick PCB test point terminals offer exceptional designed-in flexibility, allowing test engineers to easily attach J hooks, EZ hooks, lead grabbers, clips and other test probes.

All Zierick test point terminals are available with stress-free Accu-Lok™ mounting for a reliable PCB interconnection. The Accu-Lok™ feature, exclusive to Zierick, eliminates the need for tight mounting hole tolerances, permitting the use of holes with a diameter tolerance as great as ±0.003” (±0.076mm). PCB retention is achieved through a controlled splitting and forming of the terminal leg during insertion, preventing deformation, hole damage or board warpage commonly caused by traditional press-fit or compliant-fit terminal designs. Standard press-fit mounting is available if desired.

Zierick PCB test point terminals come in loose or reeled format, and in high or low profiles. PCB assembly can be done manually with Zierick hand tools, or automatically with Zierick semi- and fully-automated applicator systems.

• Zierick PCB test point terminals are available with Accu-Lok™ mounting, for maximum PCB retention and solder joint integrity.

• Accu-Lok™ mounting permits the use of mounting holes with a diameter tolerance of ±0.003” (±0.076mm).

• The Accu-Lok™ feature assures mounting repeatability and reduces the occurrence of fractured, missing or misaligned terminals.

• Press-fit test points are also available.

• Test points come loose or reeled, and in high- or low-profile configurations.

• Zierick test points may be inserted with Zierick manual hand tools, or with Zierick’s semi- or fully-automated applicators.

Accu-Lok™ is a trademark of Zierick Manufacturing Corporation and a patented product of Zierick Manufacturing Corporation. U.S. Patent(s) No. 5,017,159 and 5,082,460. Additional U.S. and international patents have been applied for.
## Test Point Terminals with Accu-Lok™ or Press-Fit Mounting

### Loose Part No. 1069
- **Reeled Part No.** 6069
- **Mounting Type** Accu-Lok™ Splay
- **Material Thickness/Type** 0.025” (0.64mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mounting Hole Diameter** 0.055” ±0.003”
  (1.40mm ±0.076mm)
- **Applicator System** Loose: ZPT81-TP
  Reeled: Model 9700, 9700 XY

### Loose Part No. 1058 1059
- **Reeled Part No.** 6058 6059
- **Mounting Type** Accu-Lok™ Splay
- **Material Thickness/Type**
  - Loose: 0.020” (0.51mm)
  - Reeled: 0.032” (0.81mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mounting Hole Diameter**
  - Loose: 0.046” ±0.003”
  - Reeled: 0.052” ±0.003”
  (1.17mm ±0.076mm) (1.32mm ±0.076mm)
- **Applicator System** Loose: ZPT81-TP
  Reeled: Model 9700, 9700 XY

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U.S. Patent(s) No. 5,017,159 and 5,082,460.
For exact finish specifications and available special finishes, see Finish Table (page 106).
Test Point Terminals with Accu-Lok™ or Press-Fit Mounting

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1032</th>
<th>1033</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6032</td>
<td>6033</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Press-Fit</td>
<td>Press-Fit</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.020” (0.51mm)</td>
<td>0.032” (0.81mm)</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper</td>
<td>Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.046° ±0.003” (1.17mm ±0.076mm)</td>
<td>0.050° ±0.003” (1.27mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-TP</td>
<td>Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1050-030</th>
<th>1049-030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6050-030</td>
<td>6049-030</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Accu-Lok™ Splay</td>
<td>Accu-Lok™ Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.020” (0.51mm)</td>
<td>0.032” (0.81mm)</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper</td>
<td>Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.050° ±0.003” (1.27mm ±0.076mm)</td>
<td>0.054° ±0.003” (1.37mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Loose: ZPT81-TP</td>
<td>Reeled: Model 7000, 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
The uniquely shaped Pro-Wave™ socket fulfills parallel PCB stacking needs in a high-speed matched impedance environment.

Zierick’s Pro-Wave™ interconnection system enables customers to parallel stack several dozen multi-layer circuit boards in a high-speed matched impedance environment, creating a three-dimensional circuit. This solderless interconnection system utilizes pins and internal sockets. The Pro-Wave™ system allows a staggered row grid density of 0.050” and a minimum PCB-to-PCB interface of 0.062”. It accommodates boards with through-holes varying from 0.020” to 0.025” in diameter.

Continuous format Pro-Wave™ sockets permit placement by automatic equipment in any number of pin counts on both standard and special grid spacings.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>608213-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/Type</td>
<td>0.0035” (0.51mm)</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Hard Gold</td>
</tr>
<tr>
<td>Mating Pin Diameter</td>
<td>0.012” (0.31mm)</td>
</tr>
<tr>
<td>Receiving PCB Hole Diameter</td>
<td>0.020”/0.025” (0.51mm/0.64mm)</td>
</tr>
<tr>
<td>PCB Thickness</td>
<td>0.96” min. (2.44mm)</td>
</tr>
</tbody>
</table>

The Pro-Wave™ interconnection system, using compliant-fit sockets with pins, allows stacking of several dozen multilayer PCBs to effectively create a three-dimensional PCB.

Beryllium copper construction with a hard gold finish ensures dependable performance.

Pro-Wave’s contour allows for multiple contact points even with hole diameter variances up to 0.005”.
Accu-Pak™ PCB Mountable Receptacles with Solder Resist Technology

Some of Zierick’s Accu-Pak™ connector line now feature optional NEW technology to prevent solder from wicking onto the internal contact areas during the wave solder process. Zierick’s Tape-Resist solder masking technology is a remarkable advancement for PCB assembly as it utilizes pre-applied 0.001” (0.03mm) thick polyester film as the solder resist agent.

TapeResist allows stamped connectors to withstand internal solder wicking without the need for expensive, non-solderable selective plated finishes. Secondary plugging or taping operations are also eliminated. The TapeResist film is precision-applied via an exclusive stamping process which eliminates the secondary processing needed with selective plating.

TapeResist connectors are applied to the PCB and processed in the exact same manner as standard connectors. Once the terminal is placed and soldered, the TapeResist film remains in place. There is no need for specialized preparation or cleaning with TapeResist connectors.

Accu-Pak™ Connectors with Tape-Resist ensure reliable PCB-to-PCB, PCB-to-Component and PCB-to-Lead Wire interconnections, with top- or bottom-entry configurations. They mate easily with square, round, and rectangular terminals and posts, and are auto insertable. Connectors feature non-destructive beam motion, built-in overstress barriers and offer regular or high retention force configurations. Zierick’s exclusive Accu-Pak™ spring technology ensures predictable mating forces with ample stored energy. Accu-Pak™ Connectors are highly resistant to permanent deformation even when misaligned. Depending on the type of Accu-Pak™ you select, they are available with either Accu-Lok™ or Stable-Lok™ shock and vibration-proof mounting features, and may be assembled manually with Zierick hand tools or automatically with Zierick semi- and fully-automated applicator systems.

TapeResist is a patented product of Zierick Manufacturing Corporation. U.S. Patent No. 5,495,669. Additional U.S. and international patents have been applied for.
0.025" (0.64mm) Accu-Pak™ Receptacles - Bottom Entry

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>6100</td>
<td>0.025&quot; (0.64mm) Rd. or Sq.</td>
</tr>
</tbody>
</table>

**Application Data**
- Mounting Type: Outward Splay
- Material Thickness/Type: 0.008" (0.20mm) Phosphor Bronze
- Standard Finish: Reeled: 100% Tin over Copper
- Mating Type: Vertical
- Mating Entry: Bottom
- Applicator System: Reeled: Model 9700, 9700 XY

**Performance Data**
- Current Rating: 3 Ampere
- Resistance Rating: 10mΩ Max
- Temperature Rating: -65° to 105°C
- Insertion Force-Max.: Application Dependent / Submit Mating Terminal Sample To Factory
- Withdrawal Force-Min.: Application Dependent / Submit Mating Terminal Sample To Factory

For exact finish specifications and available special finishes, see Finish Table (page 106).
### 0.025" (0.64mm) Accu-Pak™ Receptacles - Top Entry

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>6101</td>
<td>0.025&quot; (0.64mm) Rd. or Sq.</td>
</tr>
</tbody>
</table>

### Application Data

**Mounting Type**: Outward Splay  
**Material Thickness/Type**: 0.008" (0.20mm) Phosphor Bronze  
**Standard Finish**: Reeled: 100% Tin over Copper  
**Applicator System**: Reeled: Model 9700, 9700 XY

### Performance Data

**Current Rating**: 3 Ampere  
**Resistance Rating**: 10mΩ Max  
**Temperature Rating**: -65° to 105°C

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

**Typical PCB Geometry**

For exact finish specifications and available special finishes, see Finish Table (page 106).
Bottom Entry 4 Beam Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1062</td>
<td>6062</td>
<td>0.060” (1.52mm) Rd. or Sq.</td>
</tr>
<tr>
<td>1062-300</td>
<td>6062-300</td>
<td>0.031” x 0.062” (0.79mm x 1.57mm)</td>
</tr>
<tr>
<td>1062-400</td>
<td>6062-400</td>
<td>0.045” (1.14mm) Rd. or Sq.</td>
</tr>
<tr>
<td>1062-200</td>
<td>6062-200</td>
<td>0.090” (2.29mm) Rd. or Sq.</td>
</tr>
</tbody>
</table>

Application Data

- **Mounting Type**: Outward Splay
- **Mating Entry**: Bottom
- **Material Thickness/Type**: 0.010” (0.25mm) Phosphor Bronze
- **Applicator**: Loose: Consult factory
- **System**: Reeled: Model 9700, 9700 XY
- **Standard Finish**: Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mounting Hole Diameter**: 0.150”±0.003” (3.81mm±0.076mm)
- **Mating Type**: Vertical
- **Performance Data**
  - **Current Rating**: 10 Ampere
  - **Resistance Rating**: 10mΩ Max
  - **Temperature Rating**: -65° to 105°C

For exact finish specifications and available special finishes, see Finish Table (page 108).
**Bottom Entry 4 Beam Receptacles**

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Tape Resist</th>
<th>Mating Terminal Size</th>
</tr>
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<tbody>
<tr>
<td>1062-101</td>
<td>6062-101</td>
<td>Yes</td>
<td>0.095&quot; (2.41mm) Max</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.060&quot; (1.52mm) Rd. or Sq.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.095&quot; (2.41mm) Rd. or Sq.</td>
</tr>
</tbody>
</table>

**Application Data**

- **Mounting Type**: Outward Splay
- **Material Thickness/Type**: 0.010" (0.25mm) Phosphor Bronze
- **Standard Finish**: Loose: 100% Tin over Copper
  Reeled: 100% Tin over Copper
- **Mating Type**: Vertical

**Performance Data**

- **Current Rating**: 10 Ampere
- **Resistance Rating**: 10mΩ Max
- **Temperature Rating**: -65° to 105°C

**Mounting Hole Diameter**: 0.150"±0.003"

For exact finish specifications and available special finishes, see Finish Table (page 106).
# Bottom Entry 2 Beam Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Tape Resist</th>
<th>Mating Terminal Size</th>
<th>Dim ‘A’</th>
<th>Dim ‘B’</th>
</tr>
</thead>
<tbody>
<tr>
<td>1193</td>
<td>6193</td>
<td>Optional</td>
<td>0.025&quot; to 0.095&quot;</td>
<td>0.200&quot;</td>
<td>0.015&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(p/n 6193-TR)</td>
<td>(0.64mm to 2.41mm)</td>
<td>(5.08mm)</td>
<td>(0.38mm)</td>
</tr>
<tr>
<td>1200</td>
<td>6200</td>
<td>Optional</td>
<td>0.020&quot; to 0.095&quot; Rd. or Sq.</td>
<td>0.250&quot;</td>
<td>0.003&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.51mm to 2.41mm)</td>
<td></td>
<td>(6.35mm)</td>
<td>(0.07mm)</td>
</tr>
</tbody>
</table>

## Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Outward Splay</th>
<th>Mating Entry</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/Type</td>
<td>0.010&quot; (0.25mm)</td>
<td>System</td>
<td>Loose: Consult factory</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reeled: 100% Tin over Copper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mating Type</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Performance Data

<table>
<thead>
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<th>Current Rating</th>
<th>10 Ampere</th>
<th>Insertion</th>
<th>Application Dependent/Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>10mΩ Max</td>
<td>Force-Max.</td>
<td>Mating Terminal Sample To Factory</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 105°C</td>
<td>Force-Min.</td>
<td>Mating Terminal Sample To Factory</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

\*U.S. Patent No. 5,495,669
## Top Entry 2 Beam Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1187</td>
<td>6187</td>
<td>0.025&quot; (0.64mm) to 0.095&quot; (2.41mm) Rd. or Sq.</td>
</tr>
</tbody>
</table>

### Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Mating Type</th>
<th>Applicator System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outward Splay</td>
<td>Vertical</td>
<td>Loose: Consult factory</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Thickness/Type</th>
<th>Application Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.010&quot; (0.25mm) Phosphor Bronze</td>
<td>Mounting Hole 0.050&quot;±0.003&quot; (3.81mm±0.076mm) on 0.130&quot;±0.003&quot; centers (3.302mm±0.076mm)</td>
</tr>
</tbody>
</table>

### Performance Data

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>10 Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>10mΩ Max</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 105°C</td>
</tr>
</tbody>
</table>

### Insertion

- Application Dependent/Submit
- Mating Terminal Sample To Factory

### Force-Max.

- Mating Terminal Sample To Factory

### Withdrawal

- Application Dependent/Submit
- Mating Terminal Sample To Factory

---

For exact finish specifications and available special finishes, see Finish Table (page 106).
Tab Receptacles

Accu-Pak™ receptacles are available in many geometries to meet increasingly complex electronic packaging requirements. Vertical, horizontal, parallel, perpendicular and stacking PCB packaging configurations are possible. Options include Accu-Lok™ and Stable-Lok™ mounting. PCB assembly can be done manually with Zierick hand tools, or automatically with Zierick semi- and fully-automated applicators.

For highly repeatable PCB-to-PCB, PCB-to-Component, PCB-to-Lead Wire, and auto fuse interconnections, Accu-Pak™ PCB mountable receptacles offer outstanding yet economical performance.

Featuring exclusive contact spring technology to withstand repeated mating cycles, Accu-Pak™ receptacles mate easily with standard male terminals, posts, and blade or fuse type terminals. Mating may be accomplished with 0.025” (0.64mm), 0.045” (1.14mm), 0.060” (1.52mm), 0.062” (1.27mm), and 0.090” (2.29mm) square or round posts, for 0.031” (0.79mm) x 0.062” (1.27mm) rectangular posts and for 0.187” (4.75mm), 0.205” (5.21mm), and 0.250” (6.35mm) male quick disconnect and electronic component male terminals, such as relays and switches.

Contact spring design ensures predictable mating forces and high resistance to permanent deformation. The monoform construction allows modular, low-cost connections.

- Zierick’s Accu-Pak™ receptacles provide dependable connections and exhibit exceptional performance.
- Accu-Pak™ receptacles withstand repeated mating, shock, vibration, and temperature cycling.
- Accu-Pak™ receptacles are available in many geometries.
### 0.187" (4.75mm) Accu-Pak™ Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1241</td>
<td>6241</td>
<td>0.187&quot; x 0.015&quot; (4.75mm x 0.38mm) Tab</td>
</tr>
<tr>
<td>1026</td>
<td>6026</td>
<td>0.187&quot; x 0.020&quot; (4.75mm x 0.51mm) Tab</td>
</tr>
<tr>
<td>1025</td>
<td>6025</td>
<td>0.187&quot; x 0.032&quot; (4.75mm x 0.81mm) Tab</td>
</tr>
</tbody>
</table>

### Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Applicator System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outward or Inward Splay</td>
<td>Loose: ZPT81-A</td>
</tr>
<tr>
<td></td>
<td>Reeled: Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Thickness/Type</th>
<th>Mounting Hole Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.016” (0.41mm) Brass</td>
<td>0.052&quot;±0.003” (1.321mm±0.076mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Finish</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose: 100% Tin over Copper</td>
<td>Reeled: 100% Tin over Copper</td>
</tr>
</tbody>
</table>

### Performance Data

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>15 Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>10mΩ Max</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 85°C</td>
</tr>
</tbody>
</table>

PRINT MODIFIED for PN 1241, 6241, 1026, 6026, 1025, 6025
0.205" (5.21mm) and 0.250" (6.35mm) Accu-Pak™ Receptacles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Reel Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1022</td>
<td>6022</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tab*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.205&quot; x 0.032&quot; (5.21mm x 0.81mm) Tab*</td>
</tr>
<tr>
<td>1037</td>
<td>6037</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tin/Brass – Tab – (Low Insertion Force)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.205&quot; x 0.032&quot; (5.21mm x 0.81mm) Tin/Brass – Tab – (Low Insertion Force)</td>
</tr>
<tr>
<td>1123</td>
<td>6123</td>
<td>0.250&quot; x 0.025&quot; (6.35mm x 0.63mm) Tin/Non-Brass – Relays or Fuses – Dual/Multiple Mating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.205&quot; x 0.025&quot; (5.21mm x 0.63mm) Tin/Non-Brass – Relays or Fuses – Dual/Multiple Mating</td>
</tr>
</tbody>
</table>

**Application Data**

**Mounting Type**
- Stable-Lok™ Outward or Inward Splay

**Material Thickness/Type**
- 0.016" (0.41mm)
- Brass

**Standard Finish**
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper

**Performance Data**

**Current Rating**
- 20 Ampere

**Resistance Rating**
- 10mΩ Max

**Temperature Rating**
- -65°C to 85°C

*Loose Reeled Mating Terminal Size

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1022</td>
<td>6022</td>
</tr>
<tr>
<td></td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tab*</td>
</tr>
<tr>
<td></td>
<td>0.205&quot; x 0.032&quot; (5.21mm x 0.81mm) Tab*</td>
</tr>
<tr>
<td>1037</td>
<td>6037</td>
</tr>
<tr>
<td></td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tin/Brass – Tab – (Low Insertion Force)</td>
</tr>
<tr>
<td></td>
<td>0.205&quot; x 0.032&quot; (5.21mm x 0.81mm) Tin/Brass – Tab – (Low Insertion Force)</td>
</tr>
<tr>
<td>1123</td>
<td>6123</td>
</tr>
<tr>
<td></td>
<td>0.250&quot; x 0.025&quot; (6.35mm x 0.63mm) Tin/Non-Brass – Relays or Fuses – Dual/Multiple Mating</td>
</tr>
<tr>
<td></td>
<td>0.205&quot; x 0.025&quot; (5.21mm x 0.63mm) Tin/Non-Brass – Relays or Fuses – Dual/Multiple Mating</td>
</tr>
</tbody>
</table>

**Loose: ZPT81-A**

**Reeled: Model 9700, 9700 XY**

**Mounting Hole Diameter**
- 0.052" ± 0.003" (1.32mm ± 0.076mm)
- on 0.200" ± 0.003" centers (5.08mm ± 0.076mm)

**APPLICATION DATA**

**Mounting Type**
- Stable-Lok™ Outward or Inward Splay

**Mating Entry**
- Top

**Material Thickness/Type**
- 0.016" (0.41mm)
- Brass

**Standard Finish**
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper

**Applicator System**
- Loose: ZPT81-A
- Reeled: Model 9700, 9700 XY

**Performance Data**

**Current Rating**
- 20 Ampere

**Resistance Rating**
- 10mΩ Max

**Temperature Rating**
- -65°C to 85°C

*with Brass Tab

Specifications and available special finishes, see Finish Table (page 106).

For exact finish specifications and available special finishes, see www.zierick.com/pages/th_rec_1022.php.
**0.205" (5.21mm) and 0.250" (6.35mm) Accu-Pak™ Receptacles**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1154</td>
<td>6154</td>
<td>0.250&quot; x 0.025&quot; (6.35mm x 0.64 mm) Tab or Fuse</td>
<td>5.0lbs (22.24N)*</td>
<td>1.5lbs (6.73N)*</td>
</tr>
<tr>
<td>1225</td>
<td>6225</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tab</td>
<td>10.0lbs (44.48N)*</td>
<td>1.5lbs (6.73N)*</td>
</tr>
</tbody>
</table>

**Application Data**

**Mounting Type**
- Stable-Lok™ Outward or Inward Splay

**Material Thickness/Type**
- 0.016" (0.41mm) Brass

**Standard Finish**
- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper

**Performance Data**

**Current Rating**
- 20 Ampere (with Brass Tab)

**Resistance Rating**
- 10mΩ Max

**Temperature Rating**
- -65°C to 85°C

---

*Note: Insertion/Extraction withdrawal forces will vary when using commercial fuses. For exact finish specifications and available special finishes, see Finish Table (page 106).*
### 0.205" (5.21mm) and 0.250" (6.35mm) Accu-Pak™ Receptacles

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1093</td>
<td>6093</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tab</td>
<td>10.0lbs (44.48N)*</td>
<td>2.0lbs (8.90N)*</td>
</tr>
<tr>
<td>1090</td>
<td>6090</td>
<td>0.250&quot; x 0.025&quot; (6.35mm x 0.64mm) Tab</td>
<td>5.0lbs (22.24N)*</td>
<td>1.0lbs (4.45N)*</td>
</tr>
</tbody>
</table>

**Application Data**

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Mating Type</th>
<th>Mating Entry</th>
<th>Applicator System</th>
<th>Mounting Hole Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outward or Inward Splay</td>
<td>Horizontal</td>
<td>Horizontal</td>
<td>Consult factory</td>
<td>2 holes</td>
</tr>
<tr>
<td>Brass</td>
<td></td>
<td></td>
<td></td>
<td>0.063±0.003 (1.6mm±0.076mm) on 0.500±0.003 centers (12.7mm±0.076mm)</td>
</tr>
</tbody>
</table>

**Standard Finish**

- Loose: 100% Tin over Copper
- Reeled: 100% Tin over Copper

**Performance Data**

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>20 Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>10mil Max</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 85°C</td>
</tr>
</tbody>
</table>

*with Steel Test Tab

---

For exact finish specifications and available special finishes, see Finish Table (page 106).
## 0.250" (6.35mm) Accu-Pak™ Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>983</td>
<td>N/A</td>
<td>0.250&quot; x 0.016&quot; (6.35mm x 0.41mm) Tin/Brass Male</td>
</tr>
<tr>
<td>984</td>
<td>N/A</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tin/Brass Male</td>
</tr>
</tbody>
</table>

### Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Mating Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outward or Inward Splay</td>
<td>Top Side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mating Type</th>
<th>Applicator System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>Consult factory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material Thickness/Type</th>
<th>Standard Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.015&quot; (0.38mm) Brass</td>
<td>100% Tin over Copper</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rating</td>
</tr>
<tr>
<td>Part No. 983-10 Ampere</td>
</tr>
<tr>
<td>Part No. 984-15 Ampere</td>
</tr>
<tr>
<td>Resistance Rating</td>
</tr>
<tr>
<td>Temperature Rating</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
Loose Part No.  | Reeled Part No.  | Mating Terminal Size
--- | --- | ---
1133 | N/A | 0.250" x 0.032" (6.35mm x 0.81mm) Tin/Brass Male and Relays Dual/Multiple Matings

**Application Data**

- **Mounting Type**: Outward or Inward Splay
- **Mating Type**: 45°
- **Material Thickness/Type**: 0.025" (0.64mm) Brass
- **Standard Finish**: 100% Tin over Copper

**Performance Data**

- **Current Rating**: 25 Ampere
- **Resistance Rating**: 20mΩ Max
- **Temperature Rating**: -65°C to 85°C

**Loose Part No. Reeled Part No. Mating Terminal Size**

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1133</td>
<td>N/A</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tin/Brass Male and Relays Dual/Multiple Matings</td>
</tr>
</tbody>
</table>

**Application Data**

- **Mounting Type**: Outward or Inward Splay
- **Mating Type**: 45°
- **Material Thickness/Type**: 0.025" (0.64mm) Brass
- **Standard Finish**: 100% Tin over Copper

**Performance Data**

- **Current Rating**: 25 Ampere
- **Resistance Rating**: 20mΩ Max
- **Temperature Rating**: -65°C to 85°C

PRINT MODIFIED for PN 1133
### 0.250" (6.35mm) Accu-Pak™ Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>6120</td>
<td>0.250&quot; x 0.032&quot; (6.35mm x 0.81mm) Tin/Brass Male and Relays Dual/Multiple Matings</td>
</tr>
</tbody>
</table>

### Application Data

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Horizontal or Inward Splay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mating Type</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.025&quot; (0.64mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
</tr>
</tbody>
</table>

### Performance Data

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>25 Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>20mΩ Max</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 85°C</td>
</tr>
</tbody>
</table>

### Diagram

- **Dimensions:**
  - 0.125 ±0.010 (3.18 ±0.25)
  - 0.258 (6.55)
  - 0.145 (3.68)
  - 0.140 (3.56)
  - 0.560 (14.22)
  - 0.025 (0.64mm)
  - 0.052 (1.32mm) holes

- **Notes:**
  - Made in U.S.A.
  - www.zierick.com
  - 131 Radio Circle, Mount Kisco, NY 10549
  - 800-882-8020 • 914-666-2911 • Fax: 914-666-0216
  - PRINT MODIFIED for PN 6120
### Universal Tab Receptacles for 0.025" (0.64mm) and 0.032" (0.81mm) Thick Male Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1092</td>
<td>6092</td>
<td>0.025&quot; (0.64mm) and 0.032&quot; (0.81mm)</td>
</tr>
<tr>
<td>N/A</td>
<td>6274</td>
<td>0.020&quot; (0.51mm) and 0.032&quot; (0.81mm)</td>
</tr>
</tbody>
</table>

#### Application Data

- **Mounting Type**: Inward Splay or Accu-Lok™ “Split Leg”
- **Material Thickness/Type**: 0.016" (0.41mm) Brass
- **Standard Finish**: Loose: 100% Tin over Copper Reeled: 100% Tin over Copper

#### Performance Data

- **Current Rating**: 20 Ampere
- **Resistance Rating**: 10mΩ Max
- **Temperature Rating**: -65°C to 85°C
- **PCB Layout for Top and Horizontal Entry Mounting**

#### Optional use as ATC (Auto) fuse holder

For exact finish specifications and available special finishes, see Finish Table (page 106).
Universal Tab Receptacles for 0.025" (0.64mm) and 0.032" (0.81mm) Thick Male Terminals

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Terminal Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1118</td>
<td>6118</td>
<td>0.025&quot; (0.64mm) and 0.032&quot; (0.81mm)</td>
</tr>
<tr>
<td>1188</td>
<td>6188</td>
<td>0.015&quot; (0.38mm) and 0.025&quot; (0.64mm)</td>
</tr>
</tbody>
</table>

**Application Data**
- **Mounting Type**: Inward Splay or Accu-Lok™ “Split Leg”
- **Mating Entry**: Bottom & Horizontal
- **Material Thickness/Type**: 0.016" (0.41mm) Brass
- **Standard Finish**: Loose: 100% Tin over Copper
- **Performance Data**
  - **Current Rating**: 20 Ampere
  - **Resistance Rating**: 10mΩ Max
  - **Temperature Rating**: -65°C to 85°C

**PCB Layout for Bottom and Horizontal Entry Mounting**

**U.S. Patent No. 5,017,159**
For exact finish specifications and available special finishes, see Finish Table (page 106).
Zierick’s exclusive Snap-In PCB fuse mounting technology features a spring-loaded mounting leg which enhances PCB quality and reliability. When inserted in a PCB, Snap-In terminals exhibit increased retention, strength, and durability.

Snap-In terminals will withstand side loading and rough PCB handling. The Snap-In feature is especially useful with manually inserted and robotic assembly applications where an extremely low terminal mounting force is required.

Standard fuse clips are also available from Zierick. Both the Snap-In and standard fuse clips are available for 1/4” (6.35mm) and 0.197” (5mm) cylindrical fuse sizes. Zierick fuse clips come in a loose piece format, with or without integral fuse stops.

- Zierick’s Snap-In fuse clips ensure reliable mounting through the incorporation of a spring-loaded mounting leg.
- Both Snap-In and standard fuse clips are available for 1/4” (6.35mm) and 0.197” (5mm) cylindrical fuse sizes.
- Snap-In and standard fuse clips are available in loose piece format, with or without integral fuse stops.
## Fuse Clip Receptacles

### Loose Part No. 990
- **Fuse Size**: 0.197" (5mm)
- **Fuse Receptacle Type**: Standard w/ Fuse Stop
- **Material Thickness/ Type**: 0.016" (0.41mm) Brass
- **Standard Finish**: 100% Tin over Copper
- **Mounting Hole Diameter**: 0.052" (1.32mm)

For exact finish specifications and available special finishes, see Finish Table (page 106).

### Loose Part No. 1047
- **Fuse Size**: 1/4" (6.35mm)
- **Fuse Receptacle Type**: Snap-in w/Fuse Stop
- **Material Thickness/ Type**: 0.020" (0.51mm) Brass
- **Standard Finish**: 100% Tin over Copper
- **Mounting Hole Diameter**: 0.067" (1.70mm)

For exact finish specifications and available special finishes, see Finish Table (page 106).

### Loose Part No. 1048
- **Fuse Size**: 1/4" (6.35mm)
- **Fuse Receptacle Type**: Snap-in w/o Fuse Stop
- **Material Thickness/ Type**: 0.020" (0.51mm) Brass
- **Standard Finish**: 100% Tin over Copper
- **Mounting Hole Diameter**: 0.067" (1.70mm)

For exact finish specifications and available special finishes, see Finish Table (page 106).
Fuse Clip Receptacles

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>926</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuse Size</strong></td>
<td>1/4” (6.35mm)</td>
</tr>
<tr>
<td><strong>Fuse Receptacle Type</strong></td>
<td>Standard w/ Fuse Stop</td>
</tr>
<tr>
<td><strong>Material Thickness/Type</strong></td>
<td>0.020” (0.51mm) Brass</td>
</tr>
<tr>
<td><strong>Standard Finish</strong></td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>0.067” (1.70mm)</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>927</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuse Size</strong></td>
<td>1/4” (6.35mm)</td>
</tr>
<tr>
<td><strong>Fuse Receptacle Type</strong></td>
<td>Standard w/o Fuse Stop</td>
</tr>
<tr>
<td><strong>Material Thickness/Type</strong></td>
<td>0.020” (0.51mm) Brass</td>
</tr>
<tr>
<td><strong>Standard Finish</strong></td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>0.067” (1.70mm)</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>798</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuse Size</strong></td>
<td>1/4” (6.35mm)</td>
</tr>
<tr>
<td><strong>Fuse Receptacle Type</strong></td>
<td>Standard w/ Fuse Stop</td>
</tr>
<tr>
<td><strong>Material Thickness/Type</strong></td>
<td>0.020” (0.51mm) Brass</td>
</tr>
<tr>
<td><strong>Standard Finish</strong></td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>0.070” (1.78mm)</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
Zierick’s award-winning Torsion-Lok™ insulation displacement connector (IDC*) allows connection and insulation shear in one motion, eliminating pre-stripping. The Torsion-Lok™ IDC received the PMA-Higgins Design Award based on its ability to deliver exceptional performance while saving costs.

Designed for rigorous PCB and wire-end connection requirements, Torsion-Lok™ IDC’s outperform traditional rigid contact beam IDC styles. Unlike a rigid IDC, the Torsion-Lok™ permits a high degree of movement by the connection contacts. This greater movement allows a contact beam deflection range that is many times greater than traditional IDC’s. Connection is achieved by simply pushing the wire into the high-deflection, zero-clearance connection slot for a reliable, gas-tight connection.

The Torsion-Lok™ design provides a predictable, pre-loaded connection force. The torsional beams provide ample stored energy and are highly resistant to permanent deformation and stress relaxation. The gas-tight interconnection is maintained without wire creep and slip. It withstands repeated mating cycles, vibration, and temperature cycling.

Zierick’s family of Torsion-Lok™ IDC’s are available in loose and reeled formats for #30 through #14 AWG solid or stranded wire sizes. PCB and wire assembly can be done manually with Zierick hand tools and fixtures or automatically with Zierick semi- and fully-automated applicator systems.

- The Torsion-Lok™ IDC can be a cost-effective wire connection alternative.
- Torsion-Lok™ IDC’s provide superior performance compared to rigid contact beam IDC styles.
- The high-deflection contact beam design withstands repeated mating cycles and harsh conditions.

*U.S. Patent No. 5,022,868 and other international patents
**IDC (Insulation Displacement Connector) For #30–26 AWG Wire**

| Loose Part No. | 1182 | 1183 |
| Reeled Part No. | 6182 | 6183 |
| **Mounting Type** | Accu-Lok™ For 0.031" (0.79mm) thick PCB | Accu-Lok™ For 0.062" (1.57mm) thick PCB |
| **Material Thickness/Type** | 0.020" (0.51mm) Brass | 0.020" (0.51mm) Brass |
| **Standard Finish** | Loose: 100% Tin over Copper | Reeled: 100% Tin over Copper |
| **Wire Gauge Range** | #30-26 AWG | #30-26 AWG |
| **Mounting Hole Diameter** | Single hole 0.055" ±0.003" (1.4mm ±0.076mm) | Dim 'A' 0.070" (1.78mm) 0.100" (2.54mm) |

**U.S. Patent No. 5,022,868 and other international patents**
For exact finish specifications and available special finishes, see Finish Table (page 106).
IDC (Insulation Displacement Connector)  
For #24–18 AWG Wire

**Loose Part No.** 1119  
**Reeled Part No.** 6119

**Mounting Type**  
Outward or Inward Splay  
0.062" (1.57mm) thick PCB

**Material Thickness/Type**  
0.032" (0.81mm)  
Brass

**Standard Finish**  
Reeled: 100% Tin over Copper

**Wire Gauge Range**  
#24–18 AWG

**Mounting Hole Diameter**  
2 holes  
0.058" ±0.003" (1.47mm ±0.076mm)  
on 0.150" (3.81mm) centers

**Applicator System**  
Loose: ZPT-1119  
Reeled: Model 9700, 9700 XY  
Wire Termination Tool: WTX-XXXX-X  
Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents
For exact finish specifications and available special finishes, see Finish Table (page 106).

**Loose Part No.** 1039  
**Reeled Part No.** 6039

**Mounting Type**  
Outward or Inward Splay  
0.062" (1.57mm) thick PCB

**Material Thickness/Type**  
0.032" (0.81mm)  
Brass

**Standard Finish**  
Loose: 100% Tin over Copper  
Reeled: 100% Tin over Copper

**Wire Gauge Range**  
#24–18 AWG

**Mounting Hole Diameter**  
2 holes  
0.058" ±0.003" (1.47mm ±0.076mm)  
on 0.200" (5.08mm) centers

**Applicator System**  
Loose: ZPT-1039  
Reeled: Model 9700, 9700 XY  
Wire Termination Tool: WTX-XXXX-X  
Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents
For exact finish specifications and available special finishes, see Finish Table (page 106).
**IDC (Insulation Displacement Connector) For #16–14 AWG Wire**

- **Loose Part No.** 1174
- **Reeled Part No.** 6174
- **Mounting Type** Outward or Inward Splay
- **Material Thickness/Type** 0.032" (0.81mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
- **Wire Gauge Range** #16–14 AWG
- **Mounting Hole Diameter** 2 holes: 0.080° ±0.003" (2.03mm ±0.076mm) on 0.200" (5.08mm) centers
- **Applicator System** Loose: ZPT-1174
- **Wire Term Tool:** WTX-XXXX-X
- **Wire Termination Press:** Model 5500

---

**IDC (Insulation Displacement Connector)/Quick Disconnect Tab For #24–18 AWG Wire**

- **Loose Part No.** 1185
- **Reeled Part No.** 6185
- **Mounting Type** Outward or Inward Splay
- **Material Thickness/Type** 0.032" (0.81mm) Brass
- **Standard Finish** Loose: 100% Tin over Copper
- **Wire Gauge Range** #24–18 AWG
- **Mounting Hole Diameter** 2 holes: 0.058° ±0.003" (1.47mm ±0.076mm) on 0.200" (5.08mm) centers
- **Applicator System** Loose: ZPT-81A
- **Wire Term Tool:** ZPT-81-A-SPL
- **Wire Termination Press:** Model 5500

---

For exact finish specifications and available special finishes, see Finish Table (page 106).
## IDC (Insulation Displacement Connector)

For #19–18 AWG Magnet Wire

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6072</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Outward or Inward Splay</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.025&quot; (0.64mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper</td>
</tr>
<tr>
<td>Wire Gauge Range</td>
<td>#19-18 AWG Magnet Wire</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>2 holes 0.058&quot; ±0.003&quot; (1.47mm ±0.076mm) on 0.200&quot; (5.08mm) centers</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reeled Part No.</td>
<td>6205</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Stable-Lok™ Splay Outward or Inward</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Reeled: 100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.058&quot; ±0.003&quot; (1.47mm ±0.076mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Reeled: Model 7000, 9700, 9700 XY</td>
</tr>
</tbody>
</table>
Manual and Semi-Automatic IDC Wire Insertion Tools

Zierick offers a variety of wire insertion tools for wire-to-IDC connections. These include wire insertion hand tools for limited volume applications, a pneumatic hand tool for faster and easier connections, and the Model 5500 wire insertion press. The Foot Pedal-Activated Model 5500 wire termination system is capable of terminating multiple wires at one time. Its modular design easily adapts to various applications.
Wire Gripper

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Reeled Part No.</th>
<th>Mating Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1187</td>
<td>6187</td>
<td>#20–#14 AWG</td>
</tr>
</tbody>
</table>

**Application Data**

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Outward Splay</th>
<th>Mating Type</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/Type</td>
<td>0.010&quot; (0.25mm)</td>
<td>Applicator</td>
<td>Loose: Consult factory</td>
</tr>
<tr>
<td>Phosphor Bronze</td>
<td></td>
<td>System</td>
<td>Reeled: Model 9700, 9700 XY</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Loose: 100% Tin over Copper</td>
<td>Mounting</td>
<td>2 holes</td>
</tr>
<tr>
<td></td>
<td>Reeled: 100% Tin over Copper</td>
<td>Hole</td>
<td>0.050±0.003&quot; (1.27mm±0.076mm)</td>
</tr>
<tr>
<td>Mating Entry</td>
<td>Top</td>
<td>Diameter</td>
<td>on 0.130±0.003&quot; centers (3.302mm±0.076mm)</td>
</tr>
</tbody>
</table>

**Performance Data**

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>10 Ampere</th>
<th>Insertion</th>
<th>Application Dependent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Rating</td>
<td>10mΩ Max</td>
<td>Force-Max.</td>
<td></td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>-65°C to 105°C</td>
<td>Withdrawal</td>
<td>Application Dependent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Force-Min.</td>
<td></td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
### Wire Gripper

**Loose Part No.** | **Reeled Part No.** | **Mating Wire Size**
---|---|---
1176 | 6176 | #14–#16 AWG

#### Application Data

**Mounting Type** | Outward Splay
**Material Thickness/Type** | 0.016” (0.40mm) CDA260 Brass
**Standard Finish** | Loose: 100% Tin over Copper
**Mating Entry** | Top

**Mating Type** | Vertical
**Applicator System** | Loose: Consult factory
**Mounting Hole Diameter** | 0.072±0.003” Dia. (1.83mm±0.076mm) on 0.200” centers (5.08mm)
**Applicator Type** | Reeled: Model 9700, 9700 XY

#### Performance Data

**Current Rating** | 10 Ampere
**Resistance Rating** | 10mΩ Max
**Temperature Rating** | -65°C to 75°C

**Insertion Force-Max.** | Application Dependent
**Withdrawal Force-Min.** | Application Dependent

---

For exact finish specifications and available special finishes, see Finish Table (page 106).
Screw Terminals / Binding Posts

Zierick’s screw terminals, designed to permit the attachment of discrete lead wires to printed circuit boards, are an economic alternative to costly PCB mountable terminal strips and barrier blocks. These efficient terminals provide a solid gas-tight connection with exceptional pull-out resistance.

Available in seven basic configurations, Zierick screw terminals are highly versatile and are acceptable for most common wire gauges. Discrete lead wires are attached to the printed circuit board easily and effectively, delivering improved vibration resistance and reduced long-term stress relaxation.

Zierick screw terminals are available with or without screws; staked or unstaked; turned-in or backed-out. Customers may order Zierick screw terminals in a variety of thread and screw sizes. The screw terminals are plated with tin outerplate and copper underplate for improved solderability. They are assembled with solder-resistant 100% stainless steel screws or custom screws if required. They are packaged and bar coded with the date of manufacture and lot serial number for easy inventory control and traceability. All Zierick screw terminals are shipped in heat-sealed bags with a desiccant for a longer shelf life.

- Zierick screw terminals allow reliable attachment of discrete lead wires to printed circuit boards.
- Zierick screw terminals are an alternative to expensive PCB mountable terminal strips and barrier blocks.
- Zierick screw terminals provide a solid gas-tight connection with improved vibration resistance and minimal long-term stress relaxation.

Zierick’s new Combination Head Screw allows the use of either slot or Phillips head screwdrivers. It is a 1/4” x 6-32 stainless steel pan head combination screw which is inserted and can be staked and backed out.

This screw is currently available on our Part Number 934 ST.SC, but can be made available on other screw terminals.

Consult the factory to obtain information on availability of the Combination Head Screw on other binding posts.
**Screw Terminals / Binding Posts**

*Recommended Pad Geometry (Underside of PCB)*

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>731</th>
<th>934 ST. S</th>
<th>934 ST.SC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material Thickness/ Type</strong></td>
<td>0.032&quot; (0.81mm)</td>
<td>0.032&quot; (0.81mm)</td>
<td>0.032&quot; (0.81mm)</td>
</tr>
<tr>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
<td></td>
</tr>
<tr>
<td><strong>Standard Finish</strong></td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td><strong>Screw Type</strong></td>
<td>No Screw</td>
<td>Stainless Steel Binding Head 1/4&quot; (6.35mm) x 6-32</td>
<td>Stainless Steel Binding Head 1/4&quot; (6.35mm) x 6-32</td>
</tr>
<tr>
<td><strong>Screw Position</strong></td>
<td>No Screw</td>
<td>Inserted, Staked and Backed-Out</td>
<td>Inserted, Staked and Backed-Out</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
### Screw Terminals / Binding Posts

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>1117 ST. S</th>
<th>1117</th>
<th>1116 ST. S</th>
<th>1116</th>
<th>1202 ST. S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material Thickness/Type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
</tr>
<tr>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
<td>Pre-plated Brass</td>
<td>0.032&quot; (0.81mm)</td>
</tr>
<tr>
<td><strong>Standard Finish</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Tinned Brass</td>
<td></td>
<td>Pre-Tinned Brass</td>
<td>Pre-Tinned Brass</td>
<td>Pre-Tinned Brass</td>
<td>Pre-Tinned Brass</td>
</tr>
<tr>
<td><strong>Screw Type</strong></td>
<td>Stainless Steel</td>
<td>No Screw</td>
<td>Stainless Steel</td>
<td>No Screw</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>1/4&quot; (6.35mm) x 6-32</td>
<td></td>
<td>1/4&quot; (6.35mm) x 6-32</td>
<td></td>
<td>1/4&quot; (6.35mm) x 6-32</td>
<td></td>
</tr>
<tr>
<td><strong>Screw Position</strong></td>
<td>Inserted &amp; Down</td>
<td>N/A</td>
<td>Inserted &amp; Down</td>
<td>N/A</td>
<td>Inserted, Staked &amp; Backed Out</td>
</tr>
<tr>
<td><strong>Wire Stop</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Note:** Hidden Surfaces Not Shown to Maintain Illustration Clarity

For exact finish specifications and available special finishes, see Finish Table (page 106).

![Screw Terminal Diagram](image-url)
Screw Terminals / Binding Posts

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>792</th>
<th>348</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/ Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Screw Type</td>
<td>No Screw</td>
<td>Tin Plated Brass Binding Head 5/16&quot; (7.94mm) x 6-32</td>
</tr>
<tr>
<td>Screw Position</td>
<td>No Screw</td>
<td>Down, No Stake</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

Typical Mounting Configuration

Typical PCB Mounting Detail

Recommended Pad Geometry (Underside of PCB)

For exact finish specifications and available special finishes, see Finish Table (page 106).
**Screw Terminals / Binding Posts**

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>928-No Screw</th>
<th>928</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/Type</td>
<td>0.062&quot; (1.57) Brass</td>
<td>0.062&quot; (1.57) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Screw Type</td>
<td>No Screw</td>
<td>Stainless Steel Binding Head</td>
</tr>
<tr>
<td>Screw Position</td>
<td>No Screw</td>
<td>Inserted, Staked and Backed-Out</td>
</tr>
</tbody>
</table>

*Note: Part also available with screw, unstaked (P/N 92-No Stake)*

For exact finish specifications and available special finishes, see Finish Table (page 106).

---

**MAGTERM Screw Terminals / Binding Posts**

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>M6111</th>
<th>M6112</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Thickness/Type</td>
<td>0.032&quot; (0.81mm) Brass</td>
<td>0.032&quot; (0.81mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
<td></td>
</tr>
<tr>
<td>Screw Specifications</td>
<td>No Screw</td>
<td>No Screw</td>
</tr>
<tr>
<td>Dim 'A'</td>
<td>0.160&quot; (4.06mm)</td>
<td>0.145&quot; (3.68mm)</td>
</tr>
<tr>
<td>Dim 'B'</td>
<td>0.070&quot;/0.075&quot; (1.78mm/1.91mm)</td>
<td>0.102&quot;/0.107&quot; (2.59mm/2.72mm)</td>
</tr>
<tr>
<td>Dim 'C'</td>
<td>0.380&quot; (9.65mm)</td>
<td>0.365&quot; (9.27mm)</td>
</tr>
<tr>
<td>Dim 'D'</td>
<td>0.048&quot;/0.058&quot; (1.22mm/1.47mm)</td>
<td>0.081&quot;/0.091&quot; (2.06mm/2.31mm)</td>
</tr>
</tbody>
</table>

**Note:** Screws and wire clamps must be ordered separately

For exact finish specifications and available special finishes, see Finish Table (page 106).
Screws & Wire Clamps

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Material Thickness/Type</th>
<th>Standard Finish</th>
<th>Screw Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16 SEMS Screw</td>
<td>Steel</td>
<td>Zinc</td>
<td>7/16&quot; (11.11mm) x 6-32 Screw with Integral Wire Clamp</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Material Thickness/Type</th>
<th>Standard Finish</th>
<th>Screw Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16 632 BET SC</td>
<td>Brass</td>
<td>100% Tin</td>
<td>7/16&quot; (11.11mm) x 6-32 Brass Binding Head Screw</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

<table>
<thead>
<tr>
<th>Loose Part No.</th>
<th>Material Thickness/Type</th>
<th>Standard Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPB 9030 Clamp</td>
<td>0.032&quot; (0.81mm) Brass</td>
<td>100% Tin</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).
Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

Accu-Post Terminals

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Accu-Post Terminals
### 0.031” x 0.062” (0.79mm x 1.57mm) Accu-Post Terminals

<table>
<thead>
<tr>
<th>Reeled Part Number</th>
<th>6073-350</th>
<th>6073-360</th>
<th>6073-380</th>
<th>6073-400</th>
<th>6073-490</th>
<th>6073-xxx-xxx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim ‘A’</td>
<td>0.350” (8.89mm)</td>
<td>0.360” (9.14mm)</td>
<td>0.380” (9.65mm)</td>
<td>0.400” (10.16mm)</td>
<td>0.490” (12.45mm)</td>
<td>Customer Reqmt.</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
<td>Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.078” (1.98mm)</td>
<td>0.078” (1.98mm)</td>
<td>0.078” (1.98mm)</td>
<td>0.078” (1.98mm)</td>
<td>0.078” (1.98mm)</td>
<td>0.078” (1.98mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Model 9700, 9700 XY Model 9700, 9700 XY Model 9700, 9700 XY Model 9700, 9700 XY Model 9700, 9700 XY Model 9700, 9700 XY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

For exact finish specifications and available special finishes, see Finish Table (page 106).
0.045” (1.14mm) Square Accu-Post Terminals

<table>
<thead>
<tr>
<th>Reeled Part Number</th>
<th>6075-250</th>
<th>6075-312</th>
<th>6075-375</th>
<th>6075-450</th>
<th>6075-xxx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim ‘A’</td>
<td>0.250” (6.35mm)</td>
<td>0.312” (7.92mm)</td>
<td>0.375” (9.53mm)</td>
<td>0.450” (11.43mm)</td>
<td>Consult Factory</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
<td>Accu-Lok™</td>
</tr>
<tr>
<td>Material Thickness/Type</td>
<td>0.045” (1.14mm) Brass</td>
<td>0.045” (1.14mm) Brass</td>
<td>0.045” (1.14mm) Brass</td>
<td>0.045” (1.14mm) Brass</td>
<td>0.045” (1.14mm) Brass</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
<td>100% Tin over Copper</td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>0.072” (1.83mm)</td>
<td>0.072” (1.83mm)</td>
<td>0.072” (1.83mm)</td>
<td>0.072” (1.83mm)</td>
<td>0.072” (1.83mm)</td>
</tr>
<tr>
<td>Applicator System</td>
<td>Model 9700, 9700 XY</td>
<td>Model 9700, 9700 XY</td>
<td>Model 9700, 9700 XY</td>
<td>Model 9700, 9700 XY</td>
<td>Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

For exact finish specifications and available special finishes, see Finish Table (page 106).

U.S. Patent No. 5,082,460 & 5,017,159

Made in U.S.A.
### 0.025" (0.64mm) Square PCB Mountable Accu-Post Terminals

<table>
<thead>
<tr>
<th>Reeled Part No.</th>
<th>Dim 'A'</th>
<th>Mounting Type</th>
<th>Material Thickness/Type</th>
<th>Standard Finish</th>
<th>Mounting Hole Diameter</th>
<th>Applicator System</th>
</tr>
</thead>
<tbody>
<tr>
<td>6143-125-xxx</td>
<td>0.125&quot; (3.18mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-250-xxx</td>
<td>0.250&quot; (6.35mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-312-xxx</td>
<td>0.312&quot; (7.92mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-375-xxx</td>
<td>0.375&quot; (9.53mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-437-xxx</td>
<td>0.437&quot; (11.10mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-500-xxx</td>
<td>0.500&quot; (12.70mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-575-xxx</td>
<td>0.575&quot; (14.61mm)</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
<tr>
<td>6143-xxx-xxx</td>
<td>Customer Reqmt.</td>
<td>Accu-Lok™</td>
<td>0.025&quot; (0.635mm) Brass</td>
<td>100% Tin over Copper</td>
<td>0.030&quot;, 0.043&quot; (0.76mm/1.09mm)</td>
<td>Model 9700, 9700 XY</td>
</tr>
</tbody>
</table>

**U.S. Patent No. 5,082,460 & 5,017,159**

For exact finish specifications and available special finishes, see Finish Table (page 106).
Through-Hole and Surface Mount Assembly Systems

Zierick's family of full and semi-automated terminal insertion systems simplifies your applications, and provides the greatest range of functionality and flexibility for your component insertion needs.

Our complete line of insertion systems includes the Model 9700 XY, Model 9700 and Model 7000. All three models are designed to deliver economical, user-friendly insertion automation, and each brings specific benefits to help you get the most out of any application.

The Model 9700 XY, Model 7000 and Model 9700 feature:

- Fast component delivery
- User-friendly operation
- Efficient insertion for a range of applications
- Compatibility with Zierick terminals and connectors
- Sturdy construction for long life
- Accurate, repeatable results
- Quick change tooling
- Fast cycle time

Zierick’s Surface Mount terminal feeder is designed to be mounted on your placement system. It takes a reel of continuous strip terminals, shears them, and presents them to your placement system, eliminating the need for costly taping. With its own sophisticated on-board control system, this feeder works independently of the host placement system. It senses when a part is picked up and automatically cycles, presenting another part for pick-up, eliminating the need for a mechanical, electrical or pneumatic interface with the placement machine.

Zierick’s loose piece pin feeder feeds surface mount loose piece pins at feed rates greater than 1 pin/second. This presentation unit is readily mounted in the feeder bay of most flexible placement systems.
Designed for maximum reliability, the Zierick Model 9700 XY Positioning System terminal insertion system is an ideal work cell for production lines, and provides solutions for the fluctuating demands of contract manufacturers. Its modular tooling reduces downtime between terminal changeovers to keep things moving on your shop floor.

The system’s interchangeable applicator tooling offers several features that improve overall performance. And its high-grade tool steel construction protects the unity, reduces chipping and breakage, and ensures accurate performance use after use.

The 9700 XY incorporates a modified 9700 terminal insertion machine with a dual axis positioning system to achieve high speed, repeatable insertions through a set of programmed coordinates. User interface is through a series of menus presented to the operator via touchscreen controls.

Programming can be done manually though a simple jog and teach process, or specific data points can be downloaded directly to the PLC with an optional data connection kit. The unit is capable of storing 99 programs with 150 position points each, all of which can be modified, deleted, or added to at any time during operation.

The 9700 XY has the capability to automatically check the validity of any series of taught insertion points.

The system is a self-contained positioning and insertion unit, which is designed to fit on a standard bench top and require minimal user intervention. Once programmed and aligned for a specific board pattern, the system will provide fast, repeatable insertions without the need for adjustment or calibration.

Benefits
Basic Features
- Fully Automatic
- 12” x 12” PC board capacity
- High speed servo driver platform
- Machine cycle rate capable of over 5,000 pph
- Easy operator programmability
- Standard Model 9700 tooling compatibility
- Dedicated or adjustable board Fixturing options
- Ergonomic safety cover package
- Compact table top design
- Optional CE compliance

Air Requirements
- 90-120 PSI (6.2 - 8.3 bar)
- 8 CFM (3.8 L/S)

Power Requirements
- 120 VAC, 50-60 Hz, 2 AMPS
- Optional 100/240V, 50-60 Hz, 1 AMP

Dimensions
- Length 48” (1219 mm)
- Depth 45” (1143 mm)
- Height 38” (965 mm)
- Weight 275 lbs. (125 Kgs.)
**The Model 9700**

The Model 9700 delivers fast performance, with production rates up to 5,000 pph, and inserts Zierick’s full range of continuous strip PCB terminals and connectors. Flexibility makes the Model 9700 ideal for production lines and manufacturers. Its sleek, compact appearance is combined with a rugged yet lightweight construction, providing dependable performance in a small bench-top footprint.

**Benefits**

**Basic Features**
- Interchangeable tooling
- Self-locating anvil/lower tooling
- Cycle rate up to 5,000 pph
- Modular head, anvil, & feed
- Microprocessor controlled
- Automatic activation system
- Optional CE compliance

**Air Requirements**
- 90-120 PSI (6.2-8.3 bar)
- 8 CFM (3.8 L/S)

**Power Requirements**
- 120 VAC, 50-60 Hz, 2 AMPS
- Optional 100/240V, 50-60 Hz, 1 AMP

**Dimensions**
- Length 33.5” (851mm)
- Depth 15” (381mm)
- Width 12” (305mm)
- Weight 118 lbs. (53.5Kgs)
- Throat Depth 15” (361mm)

---

**The Model 7000**

For low- to medium-volume applications, the Model 7000 delivers cost-effective, semi-automated PCB terminal insertion. This powerful bench-top machine provides an output range of up to 2,000 pph, and operates pneumatically with a supply reel of continuous format, PCB-mountable terminals.

The easy-to-operate, pedal-activated unit incorporates an integral PCB locator with the terminal application tooling.

**Benefits**

**Basic Features**
- Output rates up to 2,000 pph
- Fully pneumatic operation

**Air Requirements**
- 60 PSI (4.1 bar)
- Dry air supply

**Power Requirements**
- 120 VAC, 50-60 Hz, 2 AMPS

**Dimensions**
- Height 45” (1143mm) with 30” (762mm) reel
- Depth 12” (305mm)
- Width 21” (533mm)
- Weight 90 lbs. (41Kgs)
Zierick hand tools are available for PCB-mounted quick-disconnect terminals, quick-disconnect receptacles, post receptacles, test points and IDC terminals.

- Simple and reliable method for inserting press-fit and splay mounted terminals.
- Single tool can handle multiple terminal insertion applications.
- Tools can be installed on almost any type of manual or pneumatic press.

### Zierick Terminals (Part Numbers) That Can Be Inserted With The PCB Terminal Insertion Hand Tool

<table>
<thead>
<tr>
<th>Terminal Dimensions</th>
<th>Male - Tab</th>
<th>Female - Receptacle</th>
<th>Insertion Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Stable-Lok</td>
<td>Standard</td>
</tr>
<tr>
<td>0.110” x 0.020”</td>
<td>834</td>
<td>1063</td>
<td>–</td>
</tr>
<tr>
<td>0.110” x 0.032”</td>
<td>835</td>
<td>1064</td>
<td>–</td>
</tr>
<tr>
<td>0.187” x 0.020”</td>
<td>895</td>
<td>1027</td>
<td>–</td>
</tr>
<tr>
<td>0.187” x 0.032”</td>
<td>894</td>
<td>1024:1042</td>
<td>–</td>
</tr>
<tr>
<td>0.205” x 0.020”</td>
<td>893</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>0.205” x 0.025”</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>0.205” x 0.032”</td>
<td>892</td>
<td>1065</td>
<td>–</td>
</tr>
<tr>
<td>0.250” x 0.032”</td>
<td>836:906</td>
<td>1021:1041</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>972:953</td>
<td>1045:1057</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>953-MOD</td>
<td>1060:1061</td>
<td>–</td>
</tr>
<tr>
<td>0.110” x 0.020”</td>
<td>949</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>0.110” x 0.032”</td>
<td>948</td>
<td>–</td>
<td>–</td>
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<tr>
<td>0.187” x 0.020”</td>
<td>956</td>
<td>987</td>
<td>–</td>
</tr>
<tr>
<td>0.187” x 0.032”</td>
<td>957</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>0.250” x 0.032”</td>
<td>901</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>0.250” x 0.020”</td>
<td>1032</td>
<td>1058</td>
<td>–</td>
</tr>
<tr>
<td>0.250” x 0.032”</td>
<td>1033</td>
<td>1059</td>
<td>–</td>
</tr>
</tbody>
</table>

* Available with lower tooling to effect terminal splaying. Anvil with 30° splay (standard) or 60° splay, and anvil holder are also available from Zierick Manufacturing.

** Hand tools also available for other Zierick terminals; please consult factory.
### Application Tooling is available for the following part numbers.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Type</th>
<th>Tool Set</th>
<th>7000</th>
<th>9700</th>
<th>9700 XY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6021</td>
<td>Quick Disconnect Terminal</td>
<td>-7</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>6022</td>
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The Surf-Shooter SMT continuous strip feeder is a combination feed, shear and present station designed to mount on the feeder rack of your placement system. With its own sophisticated on-board control system, the Surf-Shooter SMT works independently of the host placement system. It senses when a part is picked up and automatically cycles, presenting another part for pick-up, eliminating the need for a mechanical, electrical or pneumatic interface with the placement machine. In most cases, standard nozzles are utilized and Surf-Shooter SMT connectors are placed with no special machine modifications.

- Zierick’s Surf-Shooter SMT continuous strip feeder feeds, shears and presents connectors and interconnection hardware.
- The Surf-Shooter SMT mounts on the feeder rack of your new or existing placement system.
- The Surf-Shooter SMT utilizes standard nozzles in most cases and requires no special machine modifications.
- The Surf-Shooter SMT is compatible with the following pick-and-place equipment: Fuji IP-II/IP-III, Panasonic MPA 80, Philips Eclipse CSM66, 84, Sanyo TCM.V550, Sanyo TIM 1000/1100/5000, Siemens MS-180, Siemens 80 F4, Universal GSM-1, GSM-11, Juki 460, 560, 700, 810, Quad, QSP-2, QAS30, and Meridian Series. Or allow us to easily retrofit Surf-Shooter SMT to your equipment.
Zierick’s Surf-Shooter SMT loose piece pin feeder feeds surface mount loose piece pins ranging in size from 0.025” (0.64mm) square to 0.080” (2.03mm) in diameter, up to 0.750” (19.05mm) in length, at feed rates greater than 1 pin/second. The Surf-Shooter SMT presentation unit is 3.750” (95.25mm) wide and is readily mounted in the feeder bay of most flexible placement systems, including Siemens, Universal, and Europlacer machines.

Typically, no electronic interface is required between feeder and placement machine. Minor tooling changes are required to feed different pins.
Zierick products are guaranteed to be free from defects in material and workmanship for up to one year from the date of shipment. Those parts designed to be soldered meet the requirements of MIL-STD-202, METHOD 208. Solderability is guaranteed for up to one year from the date of shipment.

Zierick’s liability is limited to replacement of the defective materials or refund of the purchase cost. Zierick will not be responsible for any injury, loss or damage, directly or indirectly related to the use or incorrect use of the product. It is the user’s responsibility to determine the suitability of the product to the application and its intended use. The user accepts all responsibility and liability for the intended use of the product.

### Plating/Finish Table

Zierick’s standard finish is a minimum of 150 millionths of 100% tin over a minimum of 100 millionths copper. If there is no dash after the Part Number, the finish is as stated in the catalog product description. Finishes other than standard are explained in the table below.

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<tr>
<th>FINISH #</th>
<th>DESCRIPTION</th>
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<td>0.000150&quot; (0.0038mm) 100% Tin over 0.000100&quot; (0.0025mm) Copper</td>
</tr>
<tr>
<td>1</td>
<td>0.000050&quot; (0.0013mm) Hot Solder Dip (60% Tin, 40% Lead)</td>
</tr>
<tr>
<td>2</td>
<td>0.000050&quot; (0.0013mm) Hot Tin Dip (100% Tin)</td>
</tr>
<tr>
<td>3</td>
<td>0.000150&quot; (0.0038mm) Bright Tin over 0.000100&quot; (0.0025mm) Copper</td>
</tr>
<tr>
<td>4</td>
<td>0.000100&quot; (0.0025mm) Nickel</td>
</tr>
<tr>
<td>5</td>
<td>Cleaned and Polished</td>
</tr>
<tr>
<td>6</td>
<td>0.000150&quot; (0.0038mm) 95/5 Tin/Lead over 0.000100&quot; (0.0025mm) Copper</td>
</tr>
<tr>
<td>7</td>
<td>0.000100&quot; (0.0025mm) Bright Tin</td>
</tr>
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<td>8</td>
<td>0.000100&quot; (0.0025mm) Tin</td>
</tr>
<tr>
<td>9</td>
<td>No finish (Bare Base Metal)</td>
</tr>
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<td>11</td>
<td>Pre-Finished 100% Hot Tin Dip (consult factory for thickness). Material edges will be bare.</td>
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<tr>
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<td>Pre-Finished 0.000150&quot; (0.0038mm) 95/5 Tin/Lead over 0.000100&quot; (0.0025mm) Copper. Material edges will be bare.</td>
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<td>14</td>
<td>0.000050&quot; (0.0013mm) Gold over 0.000050&quot; (0.0013mm) Nickel</td>
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<td>0.00003&quot; (0.00076mm) Gold over 0.000050&quot; Min (0.0013mm) Nickel</td>
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<td>MS</td>
<td>Parts made to military standards have the prefix MS before the part number and are plated to the military standard of 0.0005&quot; (0.0127mm) Min 100% Tin over 0.000150&quot; (0.0038mm) Copper</td>
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<td>Special finish (consult factory)</td>
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Solderability: In Accordance with ANSI/J-STD-002, category 3, test method appropriate to the test sample

This table does not represent all available finish types. Consult pages 107–111 to match part numbers with standard finish. Finishes other than the standard will be special orders; pricing and availability may vary. Please consult factory.
<table>
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* M = 1,000

See page 106 for finish code detail.
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Disclaimer Note: Current ratings are general guidelines only. Since each application is different, the customer must do their own testing to determine the appropriate current rating for their specific application.

See page 106 for finish code detail.

* M = 1,000