Picoflex®

1.27mm IDT Connector System for Ribbon Cable Applications
MARKETS & APPLICATIONS

The versatile Picoflex® IDT connector system is ideal for a broad range of applications across all market segments:

**Industrial**
- Solar
- Weighing Systems
- Heating Systems
- Security Devices
- Access Controls
- Industrial Lighting
- Advertising Displays
- Power Supplies

**Automotive**
- Car Stereo Systems
- Navigation Systems
- In Car Entertainment
- Dashboard Applications
- Air-Conditioning

**Medical**
- Portable Heart Monitor
- Patient Monitor
- Blood Analyser
- Testers

**Multimedia**
- CD Players
- LCD Projector
- Satellite Receivers
- Televisions & Set Top Boxes

**Others**
- Office Equipment
- Vending Machines
- Smart Card Readers
- Washing Machines, Microwaves, etc.
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www.molex.com/product/ribbon/picoflex.html
INTRODUCTION

The Molex 1.27mm Picoflex® IDT connector system is a versatile, highly reliable connector system for high-density power and signal ribbon cable applications, where space & real estate is at a premium. Due to the compact size and low profile the Picoflex® IDT system is ideal for a broad range of applications in the automotive, industrial, medical and consumer electronic markets. Its highly reliable terminal design, locking and cable strain relief features guarantee secure electrical connection in applications with high vibrations and intense shock requirements.

The Picoflex® IDT system comprises PCB headers, cable connectors and standard ribbon cable assemblies in various lengths and circuit sizes. Parts are delivered in a variety of packaging formats to suit individual customer requirements.

PCB HEADERS

The Picoflex® family offers SMT and SMC PCB headers in high temperature nylon and Polyphthalamide. All headers are polarized both to the PCB and to the male connector. The staggered solder tails with 1.27mm pitch have 2.54mm distance between both solder tail rows, which substantially reduces the risk of solder bridging.

Seven header options are available:
- 90816 latched SMT header is molded with Polyphthalamide, a UL 94 HB rated material. Its positive latches give increased retention between the header and the cable connector. It can be used in a RoHS lead-free process up to 260°C and is supplied with tin or select gold plating and either tube or tape and reel blister packaging.
- 90325 low-profile through hole header with tin or select gold plating and 94 V-0 flammability rating, supplied in bag or tube packaging
- 90779 low-profile SMC header has the same features as series 90325, but is molded with a high temperature nylon material with 94 V-0 flammability rating
- 90814 SMT standard (wave solder process) and low-profile (reflow process) header with tin or select gold plating featuring a high temperature nylon material with 94 V-0 flammability rating and is supplied either in tube or tape and reel blister packaging
- 90800 right-angle low-profile header with 94 V-0 flammability rating is delivered with kinked solder tails in tube packaging
- 91714 right-angle low-profile SMC header has the same features as series 90800, but is molded with a high temperature nylon material with 94 V-0 flammability rating
- 91330 bottom-entry low-profile SMT header in high temperature nylon material with 94 V-0 flammability rating can be used in a RoHS lead-free process up to 260°C. It creates a double-sided board effect with a single side SMT process which reduces assembly costs and is supplied in tin plating with tape and reel blister packaging

CABLE CONNECTORS

The one-piece molded body with preloaded IDT terminals and cable guide removes the need for a separate upper housing, terminals or an insertion tool which significantly reduces applied costs. The cable entry window on the IDT connectors has a scalloped profile which ensures precise positioning of the 1.27mm 26 to 28 AWG standard ribbon cable. The connector is terminated by the IDT terminal being pushed up into the housing, displacing the cable jacket as well as positioning itself in the top of the housing to give an effective strain relief. Four contact points per circuit and the integral strain relief ensure excellent electrical contact.

Three optional cable connectors are available:
- 90327 IDT connector with 94 V-0 flammability rating mates with all PCB header versions, supplied with tin or select gold plating
- 90584 board-in connector for permanent board connections. The staggered tail footprint is compatible with the footprint of the standard male header, 94 V-0 flammability rating
- 91577 board-in connector for permanent board connections. The staggered tail footprint is compatible with the footprint of the standard male header, the pin layout of the 91577 layout is the opposite to 90584, giving more options to the customer, 94 V-0 flammability rating

CABLE ASSEMBLIES

Standard cable assemblies are available from 6cm – 120cm.

Four standard options of cable assemblies are available:
- 92315 cable assembly featuring two 90327 connectors in C-style (page xx)
- 92317 cable assembly featuring two 90327 connectors in Z-style (page xx)
- 92318 cable assembly either featuring one 90327 connector and one 90584 board-in connector in Z-style (page xx)
- 92316 cable assembly featuring one 90327 receptacle and one 90584 board-in connector in C-style (page xx)

A full range of non-standard options, including shorter cable lengths, can be supplied where commercially viable. Please contact your Molex sales office for more information.

TOOLING

The Picoflex® IDT connectors are designed to minimise assembly cost and are complemented by an extensive range of application tools from hand-tools for field repair and prototyping to fully automatic, state of the art, computer controlled harness making machines. Depending on the level of tooling chosen, machines are capable of manufacturing double-ended electrical and continuity tested cables. Daisy chaining is also possible.

PCB ASSEMBLIES

Molex offers customized PCB assemblies. Picoflex® is only one product family out of a variety of connector families which can be assembled on demand. Please contact your Molex sales office for more information.
**Features and Benefits**
- 1-piece housing assures precise positioning of cable
- Molded-in polarization
- 4 points of contact with ribbon cable
- Preloaded contacts
- Accepts 28 or 26 AWG (7 strand) ribbon cable
- Tape option for high-speed termination, contact Molex for part numbers

**Reference Information**
- Product Specification: PS-99020-0011
- Packaging: Bag (tape optional)
- Tooling Information: See end of section
- UL File No.: E29179
- CSA File No.: LR19980-181
- Mates With: 90816, 90325, 90779, 90800, 90814, 91330 and 91714
- Use Molex Cable: 6800, 8863 and 40158
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 1.2A
- Contact Resistance: 15 milliohms max.
- Dielectric Withstanding Voltage: 750V rms
- Insulation Resistance: 1000 Megohms min.

**Mechanical**
- Mating Force: Tin — 1.7N, Gold — 1.1N
- Unmating Force: Tin — 0.25N, Gold — 0.25N
- Durability: Tin — 30 cycles max.
- Gold — 100 cycles max. (using extraction tool)

**Physical**
- Housing: White polyester, UL 94V-0
- Contact: Phosphor Bronze Alloy
- Plating: See Table
- PCB Thickness: 1.60mm ± 0.20

**Tables**

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Note: Stacked tube is a group of 7 individual tubes in a stack
1.27mm (.050") Pitch Picoflex® PF-50 Header 90325 Low Profile

Features and Benefits
- Polarizing side posts and PCB pegs
- Stamped contacts with in-line, flat blades
- 2 points of contact with female terminal
- Rigid, staggered solder tails
- Friction lock
- Tube option packaging for robotic delivery, contact Molex for part numbers

Reference Information
Product Specification: PS-99020-0011
Packaging: Bag or tube
UL File No.: E29179
CSA File No.: LR19980-181
Mates With: 90327
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 1.2A
Contact Resistance: 15 milliohms max.
Dielectric Withstanding Voltage: 750V rms
Insulation Resistance: 1000 Megohms min.

Mechanical
Contact Retention to Housing: 7N
Mating Force: Tin — 1.7N; Gold — 1.1N
Unmating Force: Tin — 0.25N; Gold — 0.25N
Durability: Tin — 30 cycles max.
Gold — 100 cycles max. (using extraction tool)

Physical
Housing: Black 15% glass-filled polyester, UL 94V-0
Contact: Brass
Plating: See Table
PCB Thickness: 1.60mm ± 0.14

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1.27mm (.050") Pitch Picoflex® PF-50 Header 90814 Low Profile, SMT

Features and Benefits
- Polarizing side posts and PCB pegs
- Stamped SMT contacts with in-line, flat blades
- 2 points of contact with female terminal
- Rigid, staggered SMT solder tails
- Friction lock

Reference Information
Product Specification: PS-99020-0011
Packaging: Tube or blister pack (contact Molex)
Mates With: 90327
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 1.2A
Contact Resistance: 15 milliohms max.
Dielectric Withstanding Voltage: 750V rms
Insulation Resistance: 1000 Megohms min.

Mechanical
Contact Retention to Housing: 7N
Mating Force: Tin — 1.7N; Gold — 1.1N
Unmating Force: Tin — 0.25N; Gold — 0.25N
Durability: Tin — 30 cycles max.
Gold — 100 cycles max. (using extraction tool)

Physical
Housing: Natural 30% glass-filled nylon, UL 94V-0
Contact: Brass
Plating: See Table

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### 1.27mm (.050") Pitch Picoflex® PF-50 Header

**91330**

**Low Profile, Bottom Entry SMT**

#### Features and Benefits
- Polarizing side posts and PCB pegs
- Stamped SMT contacts
- Two points of contact with female terminal
- Friction lock
- Can be used in RoHS lead-free process up to 260°C
- Kapton tape for pick and place during SMT assembly
- Low profile application which creates a double-sided board effect with a single-side SMT process

#### Reference Information
- **Product Specification:** PS-99020-0011
- **Packaging:** Tape and Reel
- **Mates With:** 90327
- **Designed In:** Millimeters

#### Electrical
- **Voltage:** 250V
- **Current:** 1.2A
- **Contact Resistance:** 15 milliohms max.
- **Dielectric Withstanding Voltage:** 750V rms
- **Insulation Resistance:** 1000 Megohms min.

#### Mechanical
- **Contact Insertion Force:** 1.7N
- **Contact Retention to Housing:** 7N
- **Durability:** 30 cycles max.

#### Physical
- **Housing:** Natural 30% glass-filled Nylon, UL 94V-0
- **Contact:** Brass
- **Plating:** Tin: 5-9µm (200µ")
- **PCB Thickness:** 1.57mm ± 0.13

#### Reference Information

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### 1.27mm (.050") Pitch Picoflex® PF-50 Header

**90779**

**Low Profile, High Temperature**

#### Features and Benefits
- Polarizing side posts and PCB pegs
- Stamped contacts with in-line, flat blades
- 2 points of contact with female terminal
- Rigid, staggered solder tails
- Friction Lock
- High Temperature Surface Mount Compatible housing

#### Reference Information
- **Product Specification:** PS-99020-0011
- **Packaging:** Bag (contact Molex for tube part numbers)
- **Mates With:** 90327
- **Designed In:** Millimeters

#### Electrical
- **Voltage:** 250V
- **Current:** 1.2A
- **Contact Resistance:** 15 milliohms max.
- **Dielectric Withstanding Voltage:** 750V rms
- **Insulation Resistance:** 1000 Megohms min.

#### Mechanical
- **Contact Retention to Housing:** 7N
- **Mating Force:** Tin — 1.7N; Gold — 1.1N
- **Unmating Force:** Tin — 0.25N; Gold — 0.25N
- **Durability:** Tin — 30 cycles max.; Gold — 100 cycles max. (using extraction tool)

#### Physical
- **Housing:** Natural 30% glass-filled nylon, UL 94V-0
- **Contact:** Brass
- **Plating:** See Table
- **PCB Thickness:** 1.60mm ± 0.14

#### Reference Information

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**Note:** The table above reflects the selection options for circuits and plating types available for each order number.
**1.27mm (.050") Pitch Picoflex® PF-50 Header**

**90800**
Right Angle, Low Profile

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**Features and Benefits**
- Polarizing side posts
- Stamped contacts
- 2 points of contact with female terminal
- Kinked solder tails for board retention during solder process
- Friction lock

**Reference Information**
Packaging: Tube
Tooling Information: See end of section
Mates With: 90327
Designed In: Millimeters

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**Electrical**
- Voltage: 250V
- Current: 1.2A
- Contact Resistance: 15 milliohms max.
- Dielectric Withstanding Voltage: 750V
- Insulation Resistance: 1000 Megohms min.

**Mechanical**
- Contact Retention to Housing: 7N
- Mating Force: Tin — 1.7N
- Unmating Force: Tin — 0.25N
- Durability: Tin — 30 cycles max. (using extraction tool)

**Physical**
- Housing: Black 15% glass-filled polyester, UL 94V-0
- Contact: Brass
- Plating: See Table
- PCB Thickness: 1.60mm ± 0.20

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**1.27mm (.050") Pitch Picoflex® PF-50 Header**

**91714**
Right Angle, Low Profile
High Temperature
Through Hole

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**Features and Benefits**
- Polarizing side posts
- Stamped contacts
- Two points of contact with female terminal
- Kinked solder tails for board retention during solder process
- Friction lock
- High-temperature Surface Mount Compatible housing

**Reference Information**
Product Specification: PS-99020-0011
Packaging: Tube
Mates With: 90327
Designed In: Millimeters

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**Electrical**
- Voltage: 250V
- Current: 1.2A
- Contact Resistance: 15 milliohms max.
- Dielectric Withstanding Voltage: 750V rms
- Insulation Resistance: 1000 Megohms min.

**Mechanical**
- Contact Insertion Force: 1.7N
- Contact Retention to Housing: 7N
- Durability: 30 cycles min.

**Physical**
- Housing: Natural 30% glass-filled Nylon, UL 94V-0
- Contact: Brass
- Plating: See Table
- PCB Thickness: 1.60mm ± 0.20

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<td>91714-0026</td>
</tr>
</tbody>
</table>
1.27mm (.050”) Pitch  
Picoflex® PF-50  
Latched Header  
90816  
SMT

**Features and Benefits**  
- Positive latch for increased retention  
- Polarizing side posts and PCB pegs  
- Stamped SMT contacts with in-line, flat blades  
- 2 points of contact with female terminal  
- Rigid, staggered SMT solder tails  
- Can be used in RMS lead-free process up to 260˚

**Reference Information**  
Product Specification: PS-99020-0011  
Packaging: Tube or blister pack (contact Molex)  
Mates With: 90327  
Designed In: Millimeters

### Electrical
- Voltage: 250V  
- Current: 1.2A  
- Contact Resistance: 15 milliOhms max.  
- Dielectric Withstanding Voltage: 750V rms  
- Insulation Resistance: 1000 Megohms min.

### Mechanical
- Contact Retention to Housing: 7N  
- Mating Force: Tin — 1.7N; Gold — 1.1N  
- Unmating Force: Tin — 0.25N; Gold — 0.25N  
- Unmating Force 90327 Header: 0.25N  
- Durability: Tin — 5 cycles max. (using extraction tool); Gold — 5 cycles max. (using extraction tool)

### Physical
- Housing: Black Polyphthalamide 30% glass-filled  
- Contact: Brass  
- Plating: See Table

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Tube Pack</th>
<th>Order No.</th>
<th>Blister Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tin 3-5pm (120-200µ&quot;)</td>
<td>Select Gold 0.7µm (30µ&quot;)</td>
<td>Tin 3-5pm (120-200µ&quot;)</td>
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<td>4</td>
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<td>90816-3348</td>
<td>90816-0350</td>
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</tbody>
</table>

**Features and Benefits**  
- For permanent wire-to-board connections  
- Kinked solder tails for board retention during solder process  
- Fits same board layout pattern as male header  
- Height from board when soldered and terminated only 6.40mm (0.252")  
- 2 points of contact in IDT section  
- Accepts 26 to 28 AWG, 7 strands, ribbon cable  
- Opposite pin layout vs. 90584

**Reference Information**  
Product Specification: PS-99020-0011  
Packaging: Tube (2 options)  
Tooling Information: See end of section  
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Order No.</th>
</tr>
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<tbody>
<tr>
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</table>
1.27mm (.050") Pitch Picoflex® PF-50 Standard Cable Harness 92315

Features and Benefits
- Cable assembly with two 90327 connectors, C-style
- Sizes 4 to 26
- UL 2651, 28 AWG (7 strand) ribbon cable
- Lengths from 6 to 120cm

Reference Information
Packaging: Bag
Mates With: 90816, 90779, 90800, 90814, 91330 and 91714
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Circuits</th>
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<td>92315-08XX</td>
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<td>92315-10XX</td>
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<tr>
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<td>92315-12XX</td>
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<tr>
<td>14</td>
<td>92315-14XX</td>
</tr>
</tbody>
</table>

Replace XX with length in cm (min. 6cm, max. 120cm), see table
Example: 92315-0832 is a cable with two 90327-0308, 32cm long

Electrical
Voltage: 250V
Current: 1.2A

Mechanical
Mating Force: 1.7N
Unmating Force: 0.25N
Durability: 30 cycles max.

Physical
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze Alloy
Plating: 3 to 6µ” Tin
Insulation: Cable — Gray PVC
Wire Range: 28 AWG

1.27mm (.050") Pitch Picoflex® PF-50 Standard Cable Harness 92316

Features and Benefits
- Cable assembly with 90327 and 90584 connectors, C-style
- Sizes 4 to 26
- UL 2651, 28 AWG (7 strand) ribbon cable
- Lengths from 6 to 120cm

Reference Information
Packaging: Tube
Mates With: 90816, 90325, 90779, 90800, 90814, 91330 and 91714
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Order No.</th>
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<tbody>
<tr>
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<td>12</td>
<td>92316-12XX</td>
</tr>
<tr>
<td>14</td>
<td>92316-14XX</td>
</tr>
</tbody>
</table>

Replace XX with length in cm (min. 6cm, max. 120cm), see table
Example: 92316-0832 is a cable with 90327-0308 and 90584-2308, 32cm long

Electrical
Voltage: 250V
Current: 1.2A

Mechanical
Mating Force: 1.7N
Unmating Force: 0.25N
Durability: 30 cycles max.

Physical
Housing: 6/6 nylon, UL 94V-0
Contact: Phosphor Bronze Alloy
Plating: 3 to 6µ” Tin
Insulation: Cable — Gray PVC
Wire Range: 28 AWG
PCB Thickness: 1.60mm ± 0.20
### Features and Benefits 1.27mm (.050") Pitch Picoflex® PF-50 Standard Cable Harness 92318
- Cable assembly with 90327 and 90584 connectors, Z-style
- Sizes 4 to 26
- UL 2651, 28 AWG (7 strand) ribbon cable
- Lengths from 6 to 120cm

### Reference Information 92317
Packaging: Bag  Mates With: 90816, 90325, 90779, 90800, 90814, 91330 and 91714  Designed In: Millimeters

---

### Electrical
Voltage: 250V  Current: 1.2A

### Mechanical
Mating Force: 1.7N  Unmating Force: 0.25N  Durability: 30 cycles max.

### Physical
Housing: 6/6 nylon, UL 94V-0  Contact: Phosphor Bronze Alloy  Plating: 3 to 6µ" Tin  Insulation: Cable — Gray PVC  Wire Range: 28 AWG

---

### Features and Benefits 1.27mm (.050") Pitch Picoflex® PF-50 Standard Cable Harness 92317
- Cable assembly with two 90327 connectors, Z-style
- Sizes 4 to 26
- UL 2651, 28 AWG (7 strand) ribbon cable
- Lengths from 6 to 120cm

### Reference Information 92318
Packaging: Tube  Mates With: 90816, 90325, 90779, 90800, 90814, 91330 and 91714  Designed In: Millimeters

---

### Electrical
Voltage: 250V  Current: 1.2A

### Mechanical
Mating Force: 1.7N  Unmating Force: 0.25N  Durability: 30 cycles max.

### Physical
Housing: 6/6 nylon, UL 94V-0  Contact: Phosphor Bronze Alloy  Plating: 3 to 6µ" Tin  Insulation: Cable — Gray PVC  Wire Range: 28 AWG

---

### Circuits Order No.

<table>
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<tr>
<th>Circuits</th>
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<tbody>
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<td>92317-14XX</td>
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</tbody>
</table>

Replace XX with length in cm (min. 6cm, max. 120cm), see table.
Example: 92317-0832 is a cable with two 90327-0308, 32cm long

---

<table>
<thead>
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<th>Circuits</th>
<th>Order No.</th>
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<tbody>
<tr>
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<table>
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<th>Length</th>
<th>XX</th>
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<tr>
<td>6-99cm</td>
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<td>115cm</td>
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<td>120cm</td>
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### Length XX

<table>
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<td>115cm</td>
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</tr>
<tr>
<td>120cm</td>
<td>05</td>
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---

Replace XX with length in cm (min. 6cm, max. 120cm), see table.
Example: 92318-0832 is a cable with two 90327-0308, 32cm long
Application Tooling

Manual Extraction Tool for Picoflex®

This extraction tool is used to unmate the Picoflex connector 90327 from its header

Features
- Steel and plastic construction with moulded heads
- Long life spring steel handle
- Designed for “in the field” use, will help prevent damage to termination area and to connectors
- Suitable for all circuit sizes 4 to 26

Specifications
Size: (open) 105 by 110 by 12mm
Weight: 0.05kg approximate

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>Used with Molex Connector</th>
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</thead>
<tbody>
<tr>
<td>Extraction Tool for 4 to 26 circuits</td>
<td>69008-1670</td>
<td>90327</td>
</tr>
</tbody>
</table>

Application Tooling

Manual Extraction Tool for Picoflex®

This extraction tool is used to unmate the Picoflex connector 90327 from the latched header 90816

Features
- Steel construction
- Designed for “in the field” use, will help prevent damage to termination area and to connectors
- Suitable for all circuit sizes 4 to 26

Specifications
Size: 45mm by 100mm by 17mm
Weight: 0.13kg

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>Used with Molex Connector</th>
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</thead>
<tbody>
<tr>
<td>Extraction Tool for 4 to 26 circuits</td>
<td>62100-6000</td>
<td>90327</td>
</tr>
</tbody>
</table>

Manual Handtool for Picoflex®

Features
- Terminates Molex connectors 90327 and 90584, 4 to 26 circuits
- Designed for prototype: small batch and field repair applications
- Daisy chain and jumper harnesses can be made on this handtool with a small amount of adjustment
- Parallel Action Handtool with cable guide

Specifications
Size: 260 by 150 by 50mm
Weight: 0.73kg
Working Services: None
Engineering Number: 69008-1080

<table>
<thead>
<tr>
<th>Description</th>
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<th>Used with Molex Connector</th>
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<tbody>
<tr>
<td>Picoflex Hand Tool for 4 to 26 circuits</td>
<td>69008-1090</td>
<td>90327, 90584</td>
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</tbody>
</table>
Manual Press Tool Kit for Picoflex®

- Allows manual termination of pre-cut ribbon cable in an Arbor press
- Fully-manual operation — requires no electrical or air supply
- Hand loading of connector and cable
- Cable guide
- Fits into Arbor press number 69020-0660
- Optional connector clamp 69020-1935
- Feed-to and feed-through application
- Suitable for all circuit sizes 4 to 26
- Terminates 90327 and 90584 series

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>Used with</th>
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<tbody>
<tr>
<td>Tool Kit 4 to 26 circuits</td>
<td>69020-1902</td>
<td>90327, 90584</td>
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<tr>
<td>Manual Press for Tool Kit</td>
<td>69020-0660</td>
<td></td>
</tr>
<tr>
<td>Optional Connector Clamp</td>
<td>69020-1935</td>
<td></td>
</tr>
</tbody>
</table>

Specifications
- Weight: 1kg
- Dimensions: 15.5 by 110 by 90mm
- Working Services: None
- Engineering Number: 69020-1902

Application Tooling
Semi-Automatic PB14 Pneumatic Machine for Picoflex®

- For Picoflex 90327 connector (4 to 26 circuits)
- Fully pneumatic
- Cable triggers termination
- Production rate: 520 per hour
- Magazine feed
- Cable guidance
- Quick adjustment for different circuit sizes

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>Connector</th>
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</thead>
<tbody>
<tr>
<td>PB14 Terminator for 4 to 26 circuits</td>
<td>69127-1001</td>
<td>90327</td>
</tr>
</tbody>
</table>

Specifications
- Weight: 12kg (26.45 lb)
- Pneumatics: Pressure — 6 BAR
- Size: Width — 210mm (8.26")
  Depth — 30mm (1.18")
  Length — 330mm (12.99")
Semi-Automatic PB14T Tape Feed Machine for Picoflex®

Description | Order No. | Connector
--- | --- | ---
P14 Terminator (220V) for 4 to 26 circuits | 69127-1004 | 90327
P14 Terminator (120V) for 4 to 26 circuits | 69127-1024 |

Features
- Automatic tape feed which increases the production capabilities of the P14 terminator
- Cable entry triggers termination
- Quick adjustment between circuit sizes
- Sensor automatically keeps magazine track full, allowing the operator to concentrate on production

Specifications
- Weight: 25kg (55.12 lb)
- Pneumatics: Pressure — 6 BAR
- Size: Width — 280mm (11.00”)
- Depth — 330mm (12.99”)
- Height — 500mm (19.69”)
- Electrical: 220V — 50 Hz
- Rate: Up to 2100 connectors per hour, dependent on operator speed and cable length

Application Tooling

Semi-Automatic PB16 Tube Feed Pneumatic Machine for Picoflex®

Description | Order No. | Connector
--- | --- | ---
P16 Terminator | 69127-1010 | 90364

Features
- For Picoflex 90384
- Fully pneumatic
- Automatic connector reloading
- Tube feed with connector orientation
- Timer to ensure complete termination
- Cable entry triggers termination

Specifications
- Weight: 25kg (55.12 lb)
- Pneumatics: Pressure — 6 BAR (90psig)
- Size: Width — 125mm (4.92”)
- Depth — 175mm (6.89”)
- Length — 700mm (27.56”)

Automatic Desktop (PDT) Machine for Picoflex®

Description | Order No. | Connector
--- | --- | ---
Picoflex Desktop Machine | Contact Molex | 90327, 90384

Features
- Medium volume, with fully-automatic means of termination
- Pneumatically actuated
- Continuity testing built in
- Wire straightener
- PLC control
- Harness collection tray

Specifications
- Weight: 140kg (308 lb)
- Electrical: 240V, 50 Hz single phase
- Pneumatics: Pressure — 6 BAR (90psig)
- Consumption — 6L per minute (0.22 CFM)
- Rate: Up to 360 harnesses per hour, dependent on operator speed and application
**PICOFLEX® SAMPLE BOX**

Sample kits are available on request to demonstrate the versatility of the Picoflex IDT system.

The kit contains a demonstration board with mounted PCB headers and cable assemblies to show the functionality of the Picoflex® IDT system.

In addition to comprehensive product information there are also loose samples of all PCB headers and cable connectors for design purposes in the kit.

There is a CD with a product presentation, including links for all products to the Molex website for further product information. There is also a leaflet where you can see the features and benefits of the Picoflex product family.

If you are interested in being shown a sample kit, please contact your local Molex sales office or Molex distributor.