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**Part Number:** [0436501227](#)  
**Status:** **Active**  
**Overview:** [Micro-Fit Connector System](#)  
**Description:** Micro-Fit 3.0 Vertical Header, 3.00mm Pitch, Single Row, 12 Circuits, with PCB Polarizing Peg, Tin, Glow-Wire Capable, Black

**Documents:**

|   |  |
|---|--|
| <a href="#">3D Model (PDF)</a>                                  | <a href="#">Test Summary 430450004-TS-000 (PDF)</a>            |
| <a href="#">Drawing (PDF)</a>                                   | <a href="#">Test Summary TS-43045-001-001 (PDF)</a>            |
| <a href="#">3D Model</a>  | <a href="#">Test Summary TS-43045-002-001 (PDF)</a>            |
| <a href="#">Product Specification 436500001-PS-JA-000 (PDF)</a> | <a href="#">Test Summary TS-46235-001-001 (PDF)</a>            |
| <a href="#">Product Specification 436500001-PS-KO-000 (PDF)</a> | <a href="#">Datasheet (PDF)</a>                                |
| <a href="#">Product Specification 436500001-PS-SP-000 (PDF)</a> | <a href="#">Symbol Footprint Data SYM-43650-1227-001 (PDF)</a> |
| <a href="#">Product Specification PS-43650-001 (PDF)</a>        | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |
| <a href="#">Packaging Specification PK-70873-0811-001 (PDF)</a> |  |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

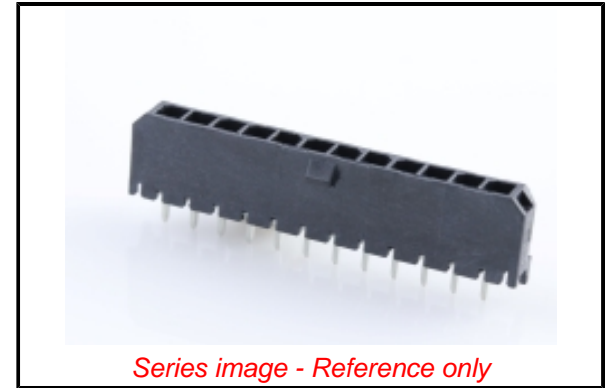
**General**

|                |   |
|----------------|---|
| Product Family | PCB Headers   |
| Series         | <a href="#">43650</a>   |
| Application    | Power, Wire-to-Board  |
| Comments       | <p>High Temperature Square Pin Solder</p> <p>Type&lt;P&gt;&lt;P&gt;This Molex product is manufactured from material that has the following ratings, tested by independent agencies:. a) A Glow Wire Ignition Temperature (GWIT) of at least 775 deg C per IEC 60695-2-13.. b) A Glow Wire Flammability Index (GWFI) above 850 deg C per IEC 60695-2-12.and hence complies with the requirements set out in the International Standard IEC 60335-1 5th edition - household and similar electrical appliances - safety, section 30 Resistance to heat and fire. &lt;P&gt;&lt;P&gt; The customers using this product must determine its suitability for use in their particular application through testing or other acceptable means as described in end-product glow-wire flammability test standard IEC 60695-2-11 and any applicable product end-use standard(s). &lt;P&gt; If it is determined during the customer's evaluation of suitability, that higher performance is required, please contact Molex for possible product options.</p> |

|              |  |
|--------------|--|
| Overview     | <a href="#">Micro-Fit Connector System</a> |
| Product Name | Micro-Fit 3.0                              |
| UPC          | 756054408797                               |

**Physical**

|                                |       |
|--------------------------------|-------|
| Breakaway                      | No    |
| Circuits (Loaded)              | 12    |
| Circuits (maximum)             | 12    |
| Color - Resin                  | Black |
| Durability (mating cycles max) | 30    |
| Flammability                   | 94V-0 |
| Glow-Wire Capable              | Yes   |
| Lock to Mating Part            | Yes   |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[43650 Series](#)

**Mates With**

Micro-Fit 3.0 Receptacle Housing [43645](#)  
<br>Micro-Fit 3.0 TPA Receptacle Housing  
[171850](#)

|                                |                                |
|--------------------------------|--------------------------------|
| Mated Height                   | 17.27mm                        |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 1.878/g                        |
| Number of Rows                 | 1                              |
| Orientation                    | Vertical                       |
| PC Tail Length                 | 3.18mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 3.00mm                         |
| Plating min - Mating           | 2.540µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40° to +105°C                 |
| Termination Interface: Style   | Through Hole                   |

#### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 8.5A |
| Voltage - Maximum             | 600V |

#### Solder Process Data

|  |          |
|--|----------|
| Duration at Max. Process Temperature (seconds) | 030      |
| Lead-free Process Capability                   | SMC&WAVE |
| Max. Cycles at Max. Process Temperature        | 003      |
| Process Temperature max. C                     | 260      |

#### Material Info

#### Reference - Drawing Numbers

|                         |  |
|-------------------------|--|
| Packaging Specification | PK-70873-0811-001  |
| Product Specification   | 436500001-PS-JA-000, 436500001-PS-KO-000,<br>436500001-PS-SP-000, PS-43650-001 |
| Sales Drawing           | SD-43650-010-001   |
| Symbol/Footprint Data   | SYM-43650-1227-001   |
| Test Summary            | 430450004-TS-000, TS-43045-001-001,<br>TS-43045-002-001, TS-46235-001-001      |

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