Mini-Fit® TPA plugs and receptacles are ideal for high-vibration and high-current applications requiring a redundant terminal retention feature

Mini-Fit® TPA plugs and receptacles utilize a visible “TPA pin” that when engaged, will ensure that the terminal is fully seated in the housing and that the terminal will not back out of the housing during mating or when in use. Mini-Fit TPA connectors also feature an optional connector position assurance (CPA) key, ensuring that the male and female connectors cannot be accidentally disengaged. The Mini-Fit TPA product family accepts all standard Mini-Fit crimp terminals further reducing design and qualification efforts. Also, no additional crimp tooling is needed. Mini-Fit TPA products are available in wire-to-wire and wire-to-board configurations with circuit sizes ranging from 2-16 and accommodating 16-28 AWG wire.

**FEATURES AND BENEFITS**

- TPA lock inserts into plug and receptacle housings to ensure that terminals are fully seated and guarantees that the terminals will not back out
- Optional CPA (Connector Position Assurance) key prevents accidental unmating
- Up to 13.0A per pin for increased current carrying capabilities
- Offered in wire-to-wire and wire-to-board configurations; headers available in mounting pegs or screw-mount flanges
- No new tooling required
- Glow-Wire versions available upon request

**SPECIFICATIONS**

**Reference Information**

Agency Certification:
- CSA LR19980
- TUV R72081037
- UL E29179

**Physical**

Color: Black or White
Flammability: 94V-0
Glow-Wire Compliant versions available
Keying to Mating Part: Yes
Lock to Mating Part: Yes
Material: Polyester
Pitch: 4.20mm (.165”)
Operating Temperature: -40 to +105°C
Mating Cycles: 30

**Electrical**

Current - Max. per Contact: 13.0A*
Voltage: 600V

---

*Current - 13.0A max. per circuit when header is mated to a receptacle loaded with 45750 series terminals crimped to 16 AWG wire.

See Molex product specification PS-45750-001 for additional current derating information

Connector Position Assurance, Contrasting White TPA/CPA for high visibility

---

<table>
<thead>
<tr>
<th>Mini-Fit® TPA (Terminal Position Assurance) Plugs and Receptacles</th>
</tr>
</thead>
<tbody>
<tr>
<td>5556, 45750</td>
</tr>
<tr>
<td>5558, 46012</td>
</tr>
<tr>
<td>30067</td>
</tr>
<tr>
<td>30068</td>
</tr>
<tr>
<td>30069</td>
</tr>
<tr>
<td>30070</td>
</tr>
<tr>
<td>30072</td>
</tr>
<tr>
<td>30071</td>
</tr>
</tbody>
</table>

---

**Mini-Fit® TPA**

- TPA Pegs
- Vertical Headers
- CPA Key
APPLICATIONS

- High-vibration
- Industrial equipment
- White goods
- Automotive/Transportation
- Non-automotive transportation
- Marine and recreational
- Military COTS (Commercial Off-the-Shelf)
- Vending
- Solar
- Lighting
- Medical

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Series No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female Terminals</td>
<td>5556, 45750</td>
</tr>
<tr>
<td>Male Terminals</td>
<td>5558, 46012</td>
</tr>
<tr>
<td>Receptacles</td>
<td>30067</td>
</tr>
<tr>
<td>Plugs</td>
<td>30068</td>
</tr>
<tr>
<td>Vertical Headers</td>
<td>30069</td>
</tr>
<tr>
<td>Right Angle Headers</td>
<td>30070</td>
</tr>
<tr>
<td>TPA Pegs</td>
<td>30072</td>
</tr>
<tr>
<td>CPA Key</td>
<td>30071</td>
</tr>
</tbody>
</table>

Mini-Fit® TPA
(Terminal Position Assurance)
Plugs and Receptacles

www.molex.com/product/power/tpa.html