# EVAFLEX® Series - Auto-Locking FFC/FPC Connectors*

| Feature | EVAFLEX® 5-HD | EVAFLEX® 5-SE-GVT | EVAFLEX® 5-SE-GHT | EVAFLEX® 5-VS | EVAFLEX® 5-VS TYPE CH | EVAFLEX® 5-SE | EVAFLEX® 5-SE-VT | EVAFLEX® 5-
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Full-Shielded High-speed (10+Gbps) FFC/FPC connector</td>
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<tr>
<td>One hand operation, Auto-locking connector Hold down (ground) for high-speed (4 Gbps)</td>
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<tr>
<td>PC panel industry standard footprint Shielded / Non-shielded High-speed (6+Gbps)</td>
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<tr>
<td>Non-shielded Horizontal mate</td>
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<tr>
<td>Non-shielded Vertical mate</td>
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<tr>
<td>TV panel industry standard footprint Shielded High-speed (16Gbps)</td>
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</table>

## Part number
- EVAFLEX® 5-HD: 20952
- EVAFLEX® 5-SE-GVT: 20799
- EVAFLEX® 5-SE-GHT: 20899
- EVAFLEX® 5-VS: 20535
- EVAFLEX® 5-VS TYPE CH: 20720
- EVAFLEX® 5-SE: 20526
- EVAFLEX® 5-SE-VT: 20539
- EVAFLEX® 5: 20818

## Feature
- **ZenShield™**
- **Full Shielding**
- **High-speed (10+Gbps)**
- **FFC/FPC connector**
- **One hand operation, Auto-locking connector**
- **Hold down (ground) for high-speed (4 Gbps)**
- **PC panel industry standard footprint**
- **Shielded / Non-shielded High-speed (6+Gbps)**
- **Non-shielded Horizontal mate**
- **Non-shielded Vertical mate**
- **TV panel industry standard footprint**
- **Shielded High-speed (16Gbps)**

## Un-lock mechanism
- Open top cover
- Pinch from the front
- Push on top
- Push down on the shell
- Push down 2 buttons
- Pinch from the sides
- Push down 2 buttons

## Mating Type
- Horizontal
- Vertical

## Pitch (mm)
- Horizontal: 0.5
- Vertical: 0.5

## Pin count
- Range: 10 – 40
- Available: 24
- Height: 2.00 +/- 0.20
- Width formula: 5.2 + (0.5*?p)
- Depth: 8.43 +/- 0.30
- Wiping length (mm): 1.00
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Top
- Compatibility (Footprint pattern): Original
- Current rating: 0.30A/pin
- Performance (Reference only): USB 3.1 Gen 2 (10 Gbps)

## Pitch (mm)
- Range: 20 – 60
- Available: 30, 50
- Height: 6.8 +/- 0.10
- Width formula: 8.00 + (0.5*?p)
- Depth: 8.00 +/- 0.10
- Wiping length (mm): 1.20
- FFC/FPC insertion depth (mm): 5.35
- Contact point: Signal contact tail side
- Compatibility (Footprint pattern): CABLINE®-VS
- Current rating: 0.35A/pin
- Performance (Reference only): V-By-One HS 1.4 (4 Gbps)

## Pitch (mm)
- Range: 10 – 60
- Available: 10, 15, 20, 30, 40, 45, 50, 60
- Height: 3.65 +/- 0.10
- Width formula: 8.00 + (0.5*?p)
- Depth: 7.00 +/- 0.10
- Wiping length (mm): 1.10
- FFC/FPC insertion depth (mm): 3.30
- Contact point: Lower
- Compatibility (Footprint pattern): Original
- Current rating: 0.30A/pin
- Performance (Reference only): PCIe Gen 3 (8 Gbps)

## Pitch (mm)
- Range: 10 – 80
- Available: 16, 22, 24, 26, 30, 40, 45, 50, 60, 80
- Height: 2.40 +/- 0.30
- Width formula: 2.40 + (0.5*?p)
- Depth: 11.5 + (0.5*?p)
- Wiping length (mm): 1.20
- FFC/FPC insertion depth (mm): 1.90
- Contact point: Vertical
- Compatibility (Footprint pattern): FI-R
- Current rating: 0.35A/pin
- Performance (Reference only): LVDS

## Pitch (mm)
- Range: 21 – 51
- Available: 60
- Height: 4.75 +/- 0.15
- Width formula: 11.5 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): eDP HBR2 (5.4 Gbps)

## Pitch (mm)
- Range: 41 – 51
- Available: 80
- Height: 5.95 +/- 0.15
- Width formula: 12.35 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): V-By-One US (16 Gbps)

## Pitch (mm)
- Range: 10 – 80
- Available: 25
- Height: 6.00 +/- 0.30
- Width formula: 11.5 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Non-shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): eDP HBR2 (5.4 Gbps)

## Pitch (mm)
- Range: 41 – 51
- Available: 80
- Height: 5.95 +/- 0.15
- Width formula: 12.35 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Non-shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): V-By-One US (16 Gbps)

## Pitch (mm)
- Range: 10 – 80
- Available: 25
- Height: 6.00 +/- 0.30
- Width formula: 11.5 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Non-shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): eDP HBR2 (5.4 Gbps)

## Pitch (mm)
- Range: 41 – 51
- Available: 80
- Height: 5.95 +/- 0.15
- Width formula: 12.35 + (0.5*?p)
- Depth: 5.95 +/- 0.15
- Wiping length (mm): 1.75
- FFC/FPC insertion depth (mm): 4.30
- Contact point: Horizontal
- Compatibility (Footprint pattern): Non-shielded FFC/FPC
- Current rating: 0.30A/pin
- Performance (Reference only): eDP HBR2 (5.4 Gbps)
Auto-Locking FFC/FPC Connector - EVAFLEX® series -

Un-locking methods

**EVAFLEX® 5**
- Push down 2 buttons and pull FFC/FPC out

**EVAFLEX® 5-SE-VT**
- Pinch from the sides and pull FFC/FPC out

**EVAFLEX® 5-SE-GVT**
- Push center lock release button and pull FFC/FPC out

**EVAFLEX® 5-VS**
- Push down on the shell and pull FFC/FPC out

**EVAFLEX® 5-SE**
- Push down 2 buttons and pull FFC/FPC out

**EVAFLEX® 5-SE-GHT**
- Push center lock release button and pull FFC/FPC out
EVAFLEX® 5-SE-GVT and GHT identified same FFC pattern

Same terminal FFC pattern can be installed on Vertical and Horizontal
※Applicable for shielded FFC, non-Shielded FFC

EVAFLEX® 5-SE-GHT

Same terminal FFC pattern suitable
FFC manufacturers supporting EVAFLEX® 5 series

Sumitomo Electric Industries, Ltd.

TOTOKU ELECTRIC CO., LTD

Hitachi Metals, Ltd.
http://www.hitachi-metals.co.jp/e/products/index.html

BANDO DENSEN Co., Ltd.
http://www.bew.co.jp/

Alysium-Tech GmbH
http://www.alysium-tech.com/product/components/ffc_-_fpc_connectors
## MINIFLEX® Series - FPC/FFC Connectors

<table>
<thead>
<tr>
<th>Feature</th>
<th>MINIFLEX® 175-ST</th>
<th>MINIFLEX® 2-BF</th>
<th>MINIFLEX® 3-BFN</th>
<th>MINIFLEX® 3-BFN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>20622</td>
<td>20617</td>
<td>20527</td>
<td>20538</td>
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<tr>
<td>Contact Pitch (mm)</td>
<td>0.175</td>
<td>0.2</td>
<td>0.3</td>
<td>0.3</td>
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<tr>
<td>Board Pitch (mm)</td>
<td>0.35</td>
<td>0.4</td>
<td>0.6</td>
<td>0.6</td>
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<tr>
<td>Range</td>
<td>7-31 (odd)</td>
<td>80-120 (even)</td>
<td>13-41 (odd)</td>
<td>33-65 (odd)</td>
</tr>
<tr>
<td>Available Range (mm)</td>
<td>16, 19</td>
<td>80, 100, 120</td>
<td>13,15,17,19,21,</td>
<td>33,35,39,41,45,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>23,25,27,29,31,</td>
<td>51,53,57,61,65</td>
</tr>
<tr>
<td>Height (mm)</td>
<td>0.52+/-0.05</td>
<td>0.90+/-.10</td>
<td>0.90+/-.10</td>
<td>0.90+/-.10</td>
</tr>
<tr>
<td>Width Formula (mm)</td>
<td>1.915+(0.175*?p)</td>
<td>1.5+(0.2*?p)</td>
<td>0.9+(0.3*?p)</td>
<td>1.5+(0.3*?p)</td>
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<tr>
<td>Depth (mm)</td>
<td>2.65</td>
<td>3.30</td>
<td>2.55</td>
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<tr>
<td>Actuator Open</td>
<td>3.0</td>
<td>4.5</td>
<td>3.0</td>
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<tr>
<td>Wiping Length (mm)</td>
<td>0.85</td>
<td>0.95</td>
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<tr>
<td>Contact A</td>
<td>0.40</td>
<td>0.45</td>
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<tr>
<td>Contact B</td>
<td>1.05</td>
<td>1.4</td>
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<tr>
<td>FPC Insertion Depth (mm)</td>
<td>0.12+/-.03</td>
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<td>0.2+/-.03</td>
<td>0.2+/-.03</td>
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<td>FPC Thickness (mm)</td>
<td>0.3A/pin</td>
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<td>0.3A/pin</td>
<td>0.3A/pin</td>
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<tr>
<td>Current Rating</td>
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<td>0.3A /pin</td>
<td>0.3A /pin</td>
<td>0.3A /pin</td>
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<tr>
<td>Contact point</td>
<td>Top</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
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<tr>
<td>Compatibility</td>
<td>Original</td>
<td>Original</td>
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<td>Original</td>
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<tr>
<td>Contact A</td>
<td>Top</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
</tr>
<tr>
<td>Wiping Length (mm)</td>
<td>1.05</td>
<td>1.4</td>
<td>1.1</td>
<td>1.1</td>
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<tr>
<td>Compatibility</td>
<td>Original</td>
<td>Original</td>
<td>Original</td>
<td>Original</td>
</tr>
<tr>
<td>FPC Insertion Depth (mm)</td>
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<td>0.2+/-.03</td>
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<td>0.2+/-.03</td>
</tr>
<tr>
<td>FPC Thickness (mm)</td>
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<td>0.2A/pin</td>
<td>0.3A/pin</td>
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</tbody>
</table>

* Please inquire for pin counts not listed as available or outside of the pin count range.

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Click the photos below to get more detailed product information.

* All connectors are back flip type unless otherwise specified.

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2020/09R0
<table>
<thead>
<tr>
<th>Feature</th>
<th>MINIFLEX® 4-ST</th>
<th>MINIFLEX® 5-BFN II</th>
<th>MINIFLEX® 5-BF III</th>
<th>MINIFLEX® 5-FF</th>
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<td>Part Number</td>
<td>20588</td>
<td>20542</td>
<td>20586</td>
<td>20600</td>
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<tr>
<td>Contact Pitch (mm)</td>
<td>0.4</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Board Pitch (mm)</td>
<td>0.4</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Pin Count Range</td>
<td>4-15</td>
<td>4-30 (even)</td>
<td>32-60 (even)</td>
<td>4-28 (even)</td>
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<tr>
<td>Available</td>
<td>4, 6, 8, 10, 12</td>
<td>4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</td>
<td>32, 34, 40, 50, 54</td>
<td>4, 6, 10, 14, 16, 18, 20, 24</td>
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<tr>
<td>Height (mm)</td>
<td>0.50 +/- 0.05</td>
<td>1.0 +/- 0.1</td>
<td>1.0 +/- 0.1</td>
<td>1.0 +/- 0.1</td>
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<tr>
<td>Width Formula (mm)</td>
<td>1.9 + (0.4 * p)</td>
<td>1.7 + (0.5 * p)</td>
<td>1.7 + (0.5 * p)</td>
<td>2.7 + (0.5 * p)</td>
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<td>2.7</td>
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<tr>
<td>Actuator Open</td>
<td>3.0</td>
<td>4.0</td>
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<td>4.0</td>
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<tr>
<td>Wiping Length (mm)</td>
<td>0.8</td>
<td>1.0</td>
<td>1.0</td>
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<td>FPC Insertion Depth (mm)</td>
<td>1.00</td>
<td>1.3</td>
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<td>FPC Thickness (mm)</td>
<td>0.12 + /- 0.03</td>
<td>0.3 + /- 0.05</td>
<td>0.3 + /- 0.05</td>
<td>0.3 + /- 0.05</td>
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<td>Current Rating</td>
<td>0.4A / pin (6A/con.)</td>
<td>0.5A / pin (7A/con.)</td>
<td>0.5A / pin (7A/con.)</td>
<td>0.5A / pin FPC 0.7A / pin DW (AWG#34)</td>
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<tr>
<td>Contact Point</td>
<td>Top</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
<td>Top and Bottom</td>
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<tr>
<td>Compatibility</td>
<td>Original</td>
<td>Original</td>
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* Please inquire for pin counts not listed as available or outside of the pin count range.
If connector actuator was closed accidentally without FPC inserted...

Do not change the temperature while the actuator is in a closed state. No reflow soldering should be done when the actuator closed state. FPC insertion force remove extra space between force and will increase after first actuator operation without the FPC being inserted. It is strongly recommended to avoid any actuator open / close operation without the FPC being inserted from the beginning.

**Connector will still function reliably**

Contact gap graph (26p) *(MINIFLEX® 5-BFN II)*

Before and after operating actuator without FPC inserted

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
<th>1 time</th>
<th>2 times</th>
<th>5 times</th>
<th>10 times</th>
<th>20 times</th>
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<tr>
<td>Contact gap</td>
<td>0.277</td>
<td>0.270</td>
<td>0.270</td>
<td>0.270</td>
<td>0.270</td>
<td>0.270</td>
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</table>

**Connector still performs even though the insertion force went up**

Insertion force graph (26p) *(MINIFLEX® 5-BFN II)*

Before and after operating actuator without FPC inserted

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
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<th>2 times</th>
<th>5 times</th>
<th>10 times</th>
<th>20 times</th>
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</thead>
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<tr>
<td>Insertion force</td>
<td>1.213</td>
<td>1.227</td>
<td>1.227</td>
<td>1.247</td>
<td>1.257</td>
<td>1.263</td>
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</tbody>
</table>

**Retention force of connector does not change**

Retention force graph (26p) *(MINIFLEX® 5-BFN II)*

Before and after operating actuator without FPC inserted

<table>
<thead>
<tr>
<th></th>
<th>Initial</th>
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<th>2 times</th>
<th>5 times</th>
<th>10 times</th>
<th>20 times</th>
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<tbody>
<tr>
<td>Retention force</td>
<td>7.797</td>
<td>7.720</td>
<td>7.693</td>
<td>7.647</td>
<td>7.623</td>
<td>7.560</td>
</tr>
</tbody>
</table>

The edge of contact does not come out from housing

AVE: 0.277 (0.270~0.284)

AVE: 0.270 (0.263~0.277)

No damage

The connector will still function reliably even after operating actuator without FPC inserted.

Connectors will still function reliably:

- No damage
- Contact gap does not change
- Retention force does not change
- Connector still performs even though the insertion force went up

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Additional mechanical lock available for higher FPC retention force

0.175 mm, 0.2 mm, 0.3 mm pitch product FPC retention force

<table>
<thead>
<tr>
<th></th>
<th>175-ST</th>
<th>2-BF</th>
<th>3-BFN</th>
<th>3-BFN LK</th>
<th>3-BFN LONG</th>
<th>3-BFN LONG LK</th>
<th>3-BFNH</th>
<th>3-BFNH LONG</th>
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<tbody>
<tr>
<td>FPC Retention</td>
<td>8.59N</td>
<td>31.33N</td>
<td>6.70N</td>
<td>11.37N</td>
<td>17.95N</td>
<td>23.45N</td>
<td>9.32N</td>
<td>20.97N</td>
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<tr>
<td>Force (Actual)</td>
<td>(19P)</td>
<td>(100P)</td>
<td>(19P)</td>
<td>(19P)</td>
<td>(51P)</td>
<td>(51P)</td>
<td>(23P)</td>
<td>(51P)</td>
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<tr>
<td>LOCK Contact</td>
<td>5.44N</td>
<td>N/A</td>
<td>N/A</td>
<td>5.50N</td>
<td>N/A</td>
<td>5.50N</td>
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<td>N/A</td>
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<td>Retention</td>
<td>(19P)</td>
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<td>(19P)</td>
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</table>

0.4 mm, 0.5 mm pitch product FPC retention force comparison

<table>
<thead>
<tr>
<th></th>
<th>4-ST</th>
<th>5-FF</th>
<th>5-BF III</th>
<th>5-BFN II</th>
<th>5-BFN II LK</th>
<th>5-BFN II LONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPC Retention</td>
<td>5.89N</td>
<td>51.72N</td>
<td>22.02N</td>
<td>7.52N</td>
<td>14.50N</td>
<td>11.43N</td>
</tr>
<tr>
<td>Force (Actual)</td>
<td>(10P)</td>
<td>(30P)</td>
<td>(30P)</td>
<td>(16P)</td>
<td>(16P)</td>
<td>(32P)</td>
</tr>
<tr>
<td>LOCK Contact</td>
<td>4.60N</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>6.98N</td>
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</tr>
<tr>
<td>Retention</td>
<td>(10P)</td>
<td></td>
<td></td>
<td></td>
<td>(16P)</td>
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</tr>
<tr>
<td>Force</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

L Mechanical lock with FPC cutout
Hold down

Hold down to improve strength of side wall and to prevent actuator drop off

<Strength improvement>

MINIFLEX® 175-ST
MINIFLEX® 2-BF
MINIFLEX® 3-BFN L-HD
MINIFLEX® 3-BFN L-LK-HD
MINIFLEX® 3-BFNL H-HD
MINIFLEX® 5-BFNII
MINIFLEX® 5-BFIII

<Designed to prevent actuator drop off>

MINIFLEX® 175-ST
MINIFLEX® 2-BF
MINIFLEX® 3-BFNL H-HD
MINIFLEX® 5-BFNII
Half-lock prevention with curved actuator design

Curved design guide users to press center of the actuator to prevent half lock

Easy to check Actuator closed position visually from top

Easy confirmation of actuator CLOSE/OPEN state
Appendix: I-PeX Connectors Series

- **MHF®** - High-Frequency Micro RF Connectors
- **CABLINE® FPL®** - High-Speed Micro-Coaxial Connectors
- **NOVASTACK®** - High-Density Board-to-Board Connectors
- **EVAFLEX® MINIFLEX®** - High-Density FFC/FPC Connectors
- **ISH® IARPB®** - High-Power Wire-to-Board Connectors
- **CUSTOM**

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