



# 0.8MM FREE HEIGHT FLOATING CONNECTORS

TE Connectivity's (TE) new 0.8 mm free height floating connectors offer  $\pm 0.6$  mm floating range with robust and cost-effective design that helps to enable reliable blind mating to reduce customer assembly cost and is suitable for high vibration applications. The product portfolio includes board stacking heights from 6.25mm to 24.7mm and is available in different sizes from 30 to 120 pins.

With its cost-effective yet rugged design, the series offers broad product coverage that supports flexible design-in across automotive, industrial, and data communication applications.

## TARGET MARKETS & APPLICATIONS

- **Automotive** - Infotainment System, Lidar, Advanced Driver Assistance Systems (ADAS)
- **Industrial** - Automation, Industrial Control, LED Display, Robotics
- **Data Communication** - Communication Base Station

## SPECIFICATIONS

- Floating range of  $\pm 0.6$ mm in X, Y direction and  $\pm 0.5$ mm in Z direction
- Wide product coverage of pin counts (30-120) and stacking height (6.25 -24.7mm)
- Up to 2.5Gbp/s
- Operation temperature - 40°C to +125°C
- Product design with location peg

## KEY BENEFITS AND FEATURES

### Easier Assembly and Cost-Effective Design

- Floating features enable blind mating, can minimize assembly defect risk
- Accurate positioning in PCB and easy to mount with location peg
- Reduce customer assembly cost

### Notable Performance and Rugged Design

- Reliable performance fit for high vibration applications
- Suitable for harsh environment applications with high temperature

### Broad Portfolio

- Offers customer design flexibility in terms of pin counts and stacking height at end applications



Vertical and Horizontal Configuration



Large Floating Range



PART NUMBERS

Height (mm)	30 Pos.	40 Pos.	50 Pos.	60 Pos.	70 Pos.	80 Pos.	100 Pos.	120 Pos.
<b>Receptacle, Vertical</b>								
4.95	<a href="#">2487492-3</a>	<a href="#">2487492-4</a>	<a href="#">2487492-5</a>	<a href="#">2487492-6</a>	<a href="#">2487492-7</a>	<a href="#">2487492-8</a>	<a href="#">1-2487492-0</a>	<a href="#">1-2487492-2</a>
8.45	<a href="#">2487882-3</a>	<a href="#">2487882-4</a>	<a href="#">2487882-5</a>	<a href="#">2487882-6</a>	<a href="#">2487882-7</a>	<a href="#">2487882-8</a>	<a href="#">1-2487882-0</a>	<a href="#">1-2487882-2</a>
<b>Plug, Vertical</b>								
4.8	<a href="#">2487671-3</a>	<a href="#">2487671-4</a>	<a href="#">2487671-5</a>	<a href="#">2487671-6</a>	<a href="#">2487671-7</a>	<a href="#">2487671-8</a>	<a href="#">1-2487671-0</a>	<a href="#">1-2487671-2</a>
6.8	<a href="#">2487877-3</a>	<a href="#">2487877-4</a>	<a href="#">2487877-5</a>	<a href="#">2487877-6</a>	<a href="#">2487877-7</a>	<a href="#">2487877-8</a>	<a href="#">1-2487877-0</a>	<a href="#">1-2487877-2</a>
7.8	<a href="#">2487881-3</a>	<a href="#">2487881-4</a>	<a href="#">2487881-5</a>	<a href="#">2487881-6</a>	<a href="#">2487881-7</a>	<a href="#">2487881-8</a>	<a href="#">1-2487881-0</a>	<a href="#">1-2487881-2</a>
10.9	<a href="#">2487884-3</a>	<a href="#">2487884-4</a>	<a href="#">2487884-5</a>	<a href="#">2487884-6</a>	<a href="#">2487884-7</a>	<a href="#">2487884-8</a>	<a href="#">1-2487884-0</a>	<a href="#">1-2487884-2</a>
13	<a href="#">2487886-3</a>	<a href="#">2487886-4</a>	<a href="#">2487886-5</a>	<a href="#">2487886-6</a>	<a href="#">2487886-7</a>	<a href="#">2487886-8</a>	<a href="#">1-2487886-0</a>	<a href="#">1-2487886-2</a>
14.5	<a href="#">2487883-3</a>	<a href="#">2487883-4</a>	<a href="#">2487883-5</a>	<a href="#">2487883-6</a>	<a href="#">2487883-7</a>	<a href="#">2487883-8</a>	<a href="#">1-2487883-0</a>	<a href="#">1-2487883-2</a>
15.8	<a href="#">2487887-3</a>	<a href="#">2487887-4</a>	<a href="#">2487887-5</a>	<a href="#">2487887-6</a>	<a href="#">2487887-7</a>	<a href="#">2487887-8</a>	<a href="#">1-2487887-0</a>	<a href="#">1-2487887-2</a>
19.7	<a href="#">2487888-3</a>	<a href="#">2487888-4</a>	<a href="#">2487888-5</a>	<a href="#">2487888-6</a>	<a href="#">2487888-7</a>	<a href="#">2487888-8</a>	<a href="#">1-2487888-0</a>	<a href="#">1-2487888-2</a>
<b>Plug, Right Angle</b>								
6.7	<a href="#">2487778-3</a>	<a href="#">2487778-4</a>	<a href="#">2487778-5</a>	<a href="#">2487778-6</a>	<a href="#">2487778-7</a>	<a href="#">2487778-8</a>	<a href="#">1-2487778-0</a>	<a href="#">1-2487778-2</a>

(Stacking height = Receptacle height + Plug height - 3.5mm)

FREQUENTLY ASKED QUESTIONS

**Q1: What is the floating range of your products?**

A1: Our 0.8 free height floating series can offer ±0.6mm in X, Y direction and ±0.5mm in Z direction.

**Q2: How does your product achieve the floating feature?**

A2: Our connector housing contains both fixed part and floating part, and they work together with spring contacts to support the movement.

**Q3: What is the advantage of floating function?**

A3: It can support blind mating to absorb assembly tolerance and reduce assembly cost.

**Q4: Does the product float affect the contact?**

A4: No. The contact area of the product is limited by plastic. After strict tolerance analysis, the contact is good with worst deviation.

**Q5: Does the product support diagonal insertion?**

A5: Yes, we have a large guide angle of the female plastic. Please refer to our Application Specification for details.

TE Connectivity  
Digital Data Networks

[te.com](http://te.com)

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2025 TE Connectivity. All Rights Reserved.

09-25