

News Release

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Floating board-to-board connectors FS 0.635 improves tolerance compensation

Middletown, Pa. – The space-saving board-to-board connectors in Phoenix Contact's FS 0.635 series enable mezzanine PCB arrangements with high-speed data transmission rates up to 30 Gbps. The floating system features a tolerance compensation of up to 0.7 mm in the "x" and "y" directions, as well as 0.6 mm in the "z" direction.

This flexibility within the board-to-board connection minimizes mechanical strain and provides a reliable connection. These properties are particularly important in environments with high vibration, when using several board-to-board connectors side by side, or for automatic insertion using robots.

The combination of floating and high speed is unique on the market: Due to the curved contact, the floating version achieves a data transmission rate of up to 40 Gbps, compared to the rigid version, which supports up to 30 Gbps.

As an additional service, Phoenix Contact offers design-in support with high-speed simulations and S-parameters. The floating female connector strip is combined with a fixed, rigid male connector strip. Because of the floating principle, the FS 0.635 series can achieve stack heights between 8 and 12.6 mm. As a standard rigid board-to-board connection, it can realize stack heights between 6 and 16.6 mm. The entire series is available now in 20, 40, 60, and 80 positions.

Learn more at <u>www.phoenixcontact.com/btb</u>, or contact your local Phoenix Contact sales engineer for a free sample.

About Phoenix Contact

Phoenix Contact is a global market leader based in Germany. Since 1923, Phoenix Contact has created products to connect, distribute, and control power and data flows. Our products are found in nearly all industrial settings, but we have a strong focus on the energy, infrastructure, process, factory automation, and e-mobility markets. Sustainability and responsibility guide every action we take, and we're proud to work with our customers to empower a smart and sustainable world for future generations. Our global network includes 22,000 employees in 100+ countries. Phoenix Contact USA has headquarters near Harrisburg, Pa., and employs more than 1,100 people across the U.S.

For more information about Phoenix Contact or its products, visit www.phoenixcontact.com, call technical service at 800-322-3225, or email www.phoenixcontact.com,