

PCB Connectors

August 2021

FQ 1.27 and 2.54 bring space savings and cost-optimization to the world of board-to-board connectors

FQ series board-to-board connectors offer a clear and cost-optimized design that is suitable for numerous applications. The series provides reliable mechanical and electrical connections utilizing a double-sided contact system. Pin and socket-style connectors enable mezzanine, coplanar, and mother-daughter connections to be easily implemented.

Features and benefits

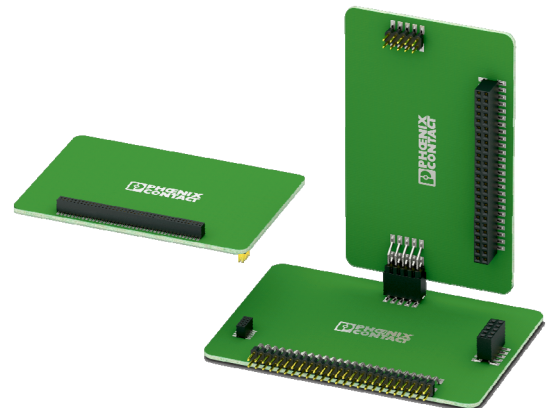
- High degree of flexibility due to various pitches, numbers of positions, and designs
- The FQ series is supplied in tape-and-reel packaging (FQ 1.27) or in a magazine (FQ 2.54), ideal for automated processability
- The defined contact force ensures reliable, long-term, stable connections
- FQ 1.27 is available in vertical configurations and FQ 2.54 is available in both vertical and horizontal configurations

Technical data

- Offered in 10, 20, 30, 50, and 80 positions
- 1.27 mm or 2.54 mm centerlines
- Stacking heights of 6.5 mm to 7.5 mm (1.27) and 14.0 mm to 14.9 mm (2.54)
- Nominal current of 1 A (1.27) and 3 A (2.54)
- Service life of 100 mating cycles
- UL Recognized component (UL 1977)

Potential applications

- I/Os
- PLCs
- Frequency converters
- HMIs
- Sensors



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Part number	Description	Position
1156861	FQ 1.27D/ 10-PV- 160-1-BR	10
1156862	FQ 1.27D/ 20-PV- 160-1-BR	20
1156863	FQ 1.27D/ 30-PV- 160-1-BR	30
1156864	FQ 1.27D/ 50-PV- 160-1-BR	50
1156865	FQ 1.27D/ 80-PV- 160-1-BR	80
1156833	FQ 1.27D/ 10-SV- 490-1-BR	10
1156835	FQ 1.27D/ 20-SV- 490-1-BR	20
1156838	FQ 1.27D/ 30-SV- 490-1-BR	30
1156839	FQ 1.27D/ 50-SV- 490-1-BR	50
1156842	FQ 1.27D/ 80-SV- 490-1-BR	80
1156914	FQ 2.54D/ 10-PV- 380-1-BT	10
1156915	FQ 2.54D/ 20-PV- 380-1-BT	20
1156917	FQ 2.54D/ 30-PV- 380-1-BT	30
1156918	FQ 2.54D/ 50-PV- 380-1-BT	50
1156921	FQ 2.54D/ 80-PV- 380-1-BT	80
1156939	FQ 2.54D/ 10-PH-1-BT	10
1156942	FQ 2.54D/ 20-PH-1-BT	20
1156943	FQ 2.54D/ 30-PH-1-BT	30
1156944	FQ 2.54D/ 50-PH-1-BT	50
1156945	FQ 2.54D/ 80-PH-1-BT	80
1156886	FQ 2.54D/ 10-SV-1020-1-BT	10
1156888	FQ 2.54D/ 20-SV-1020-1-BT	20
1156889	FQ 2.54D/ 30-SV-1020-1-BT	30
1156891	FQ 2.54D/ 50-SV-1020-1-BT	50
1156893	FQ 2.54D/ 80-SV-1020-1-BT	80
1156901	FQ 2.54D/ 10-SH-0-BT	10
1156904	FQ 2.54D/ 20-SH-0-BT	20
1156905	FQ 2.54D/ 30-SH-0-BT	30
1156906	FQ 2.54D/ 50-SH-0-BT	50
1156907	FQ 2.54D/ 80-SH-0-BT	80

Learn more about FQ products at www.phoenixcontact.com/pcb and search "FQ"