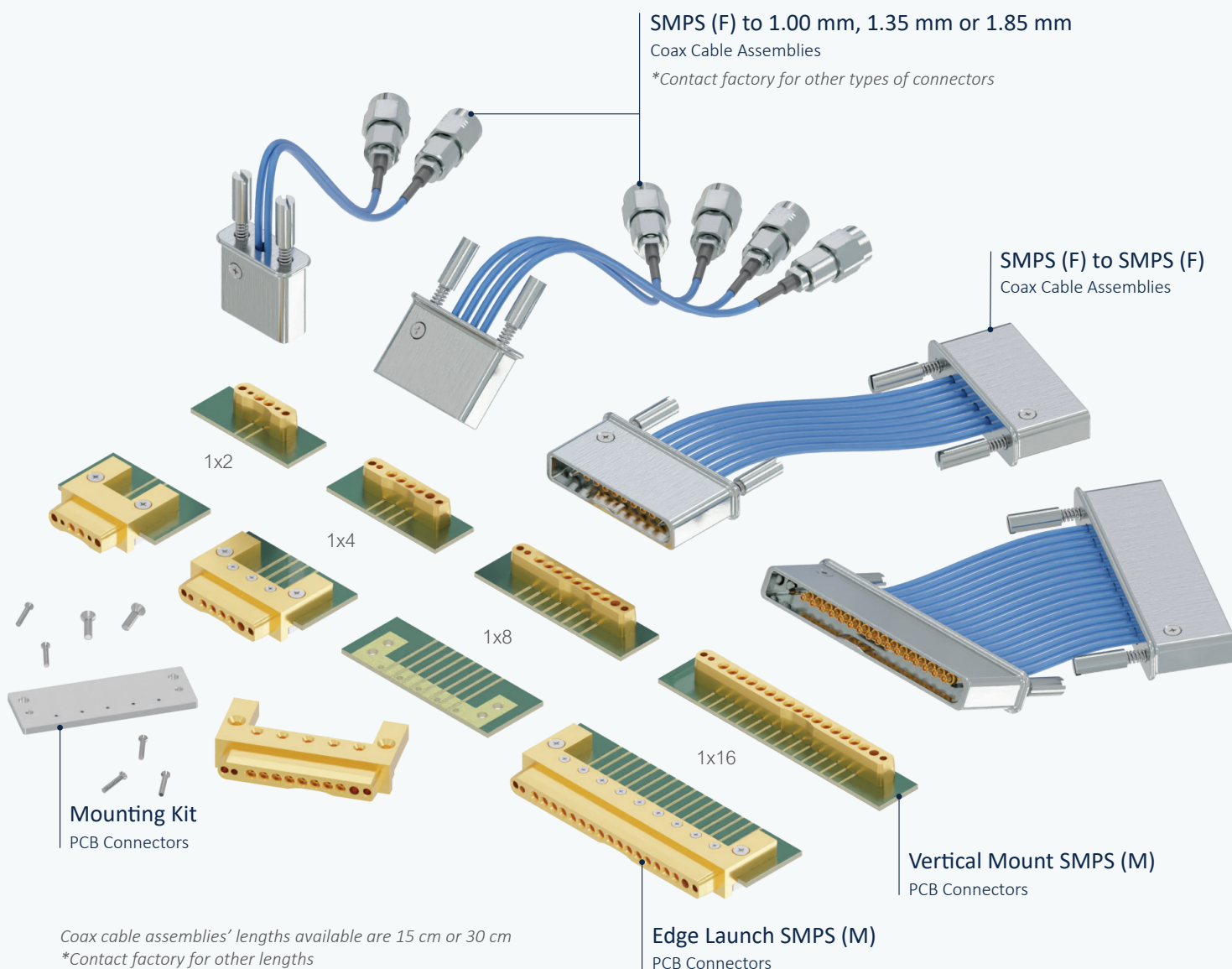




SMPS Interconnects | DC- 110 GHz

Subminiature Push On Sub-micro

A Comprehensive Offering:



Features:

- Solderless design
- High density 2.54 mm pitch
- High performance DC-110 GHz
- Blind-mateable mating interface
- Coplanar waveguide & stripline compatible
- Solderless design

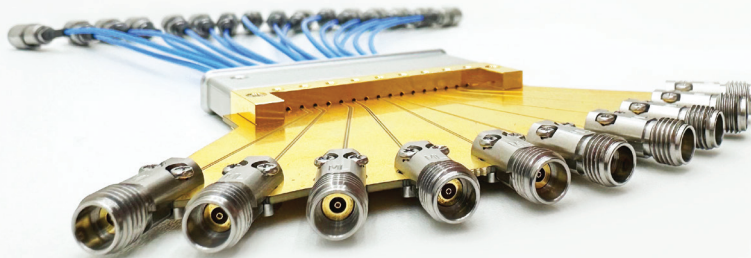
Benefits:

- Compact footprint
- Easy field installation & replacement for lower cost, fast cycle time and high repeatability
- Fully customizable
- Cost effective

Multiport SMPS Interconnects

224G Ready

The rise in mmWave, 5G, and 224Gbps/lane PAM4 powering the AI revolution calls for a new type of interconnect to ensure consistent and accurate connections. MultiLane SMPS interconnects are a key component of MultiLane tailored to accelerate the development of 224G system architecture. SMPS connector applications include, but are not limited to semiconductor development, ATE testing, and data center testing.



High Performance
DC - 110GHz

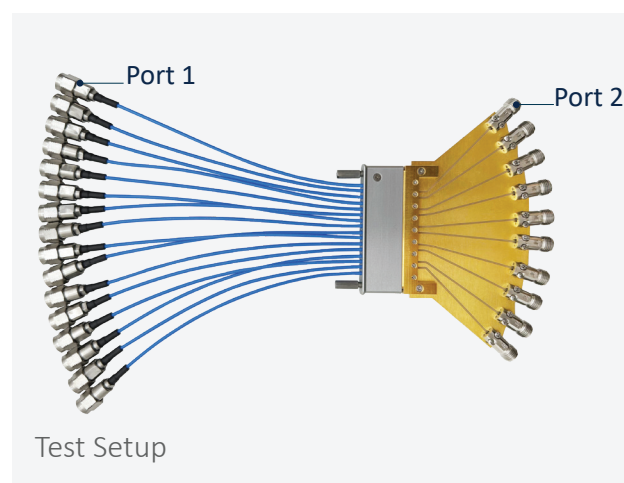
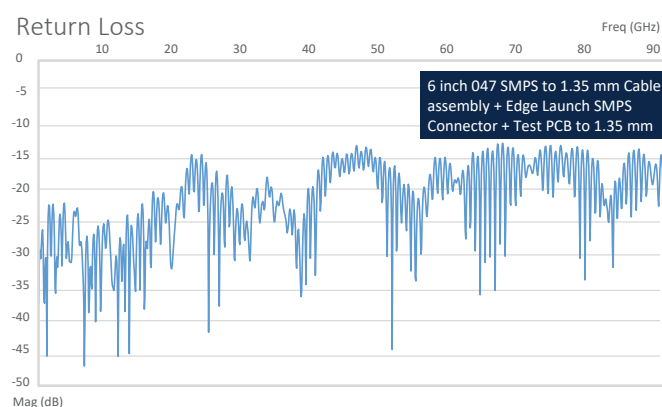
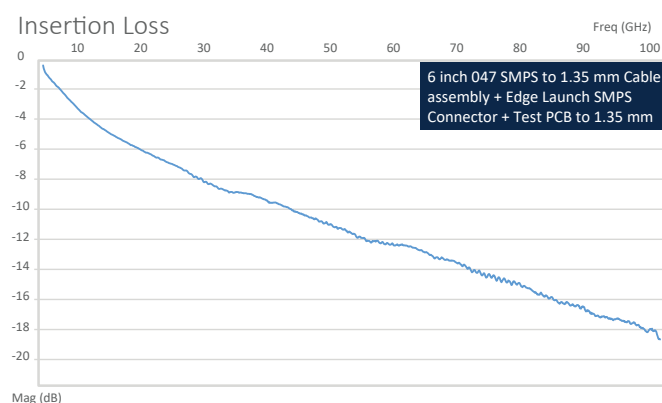
High Density
Interconnects

Solderless
Installation

Cost Effective
Solutions

MultiLane can de-embed any SMPS part as needed. A 2xThru trace to de-embed the board alongside an S2p file for the SMPS Female Cable assembly are available upon request.

Reach out to sales@multilaneinc.com



Test Setup for 6 inch 047 SMPS to 1.35mm Cable Assembly + Edge Launch SMPS Connector + Test PCB to 1.35mm

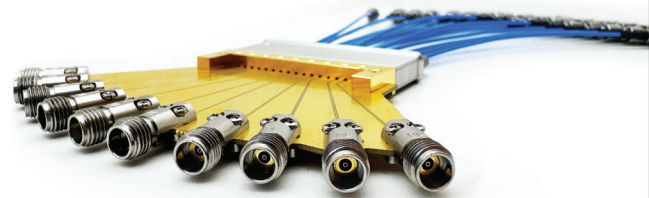
Nominal Impedance	50 ohms
Frequency Range	up to 110 GHz
Insertion Loss	-4dB at 90GHz (De-Embedded)
Return Loss	> 10 dB from 60 GHz to 90 GHz
Shield Effectiveness	> 80 dB

Testing Every Facet

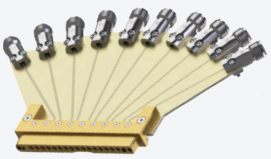
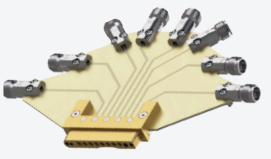



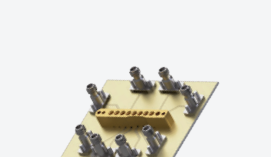


MultiLane offers a selection of test boards for in-house validation of SMPS assemblies.

Each connector has associated CAD files – available upon request – for both a model of the connector itself (STEP), and its footprint on a PCB (DXF).

MultiLane can also provide recommended footprints and assistance with matching MultiLane connectors to any stackup.



MultiLane test boards come fitted with proprietary EMI precision connectors of 1.00 mm, 1.35 mm or 1.85 mm available for purchase separately alongside other interfaces.

	1x16	1x8	1x4	1x2
Edge Launch SMPS Connectors Test Boards				
Vertical Mount SMPS Connectors Test Boards				

Tailored to Your Applications

A core value of MultiLane Interconnects, SMPS connectors can be customized to any configuration for specific applications.

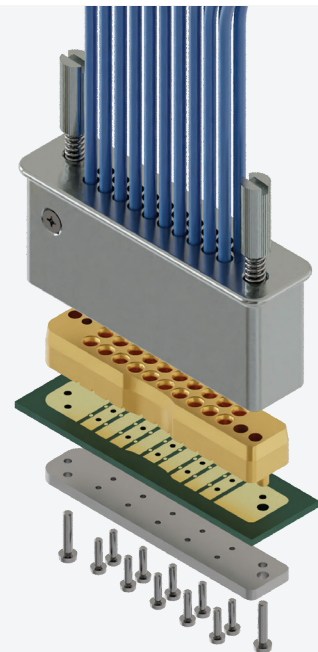
Reach out to sales@multilaneinc.com with your application requirements for consultation.

Some key areas that MultiLane offers customization include:

- Number of rows and number of ports per row
- Connector design: housing, contact, plating, etc.
- Cable length & cable type
- Cable termination

The MultiLane Interconnect team is ready to assist with:

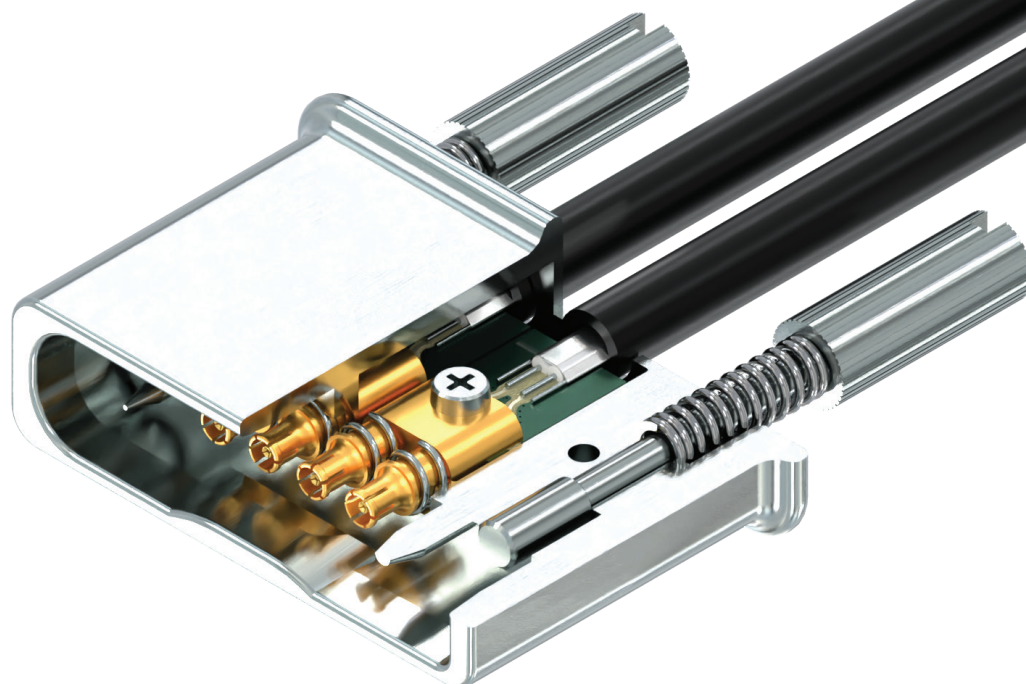
- Mechanical Design
- SI Design & Optimization
- Quick Turnaround Designs



Custom double row vertical connector and cable assembly

SMPS Twinax Cable Assemblies

Greater system stability and performance in a tighter package



High Data Rates
112Gb/s | 224Gb/s

System Stability
& Reliability

Superior Thermal
Performance

Design Space
Efficiency

Cost Effective
Solutions

Twinax cables transmit a single signal in differential pairs with very low skew, ensuring extra protection from environmental factors.

The MultiLane line of twinax SMPS cable assemblies answers three of the most prominent industry trends: cost effectiveness, high density design, and high data rate requirements.

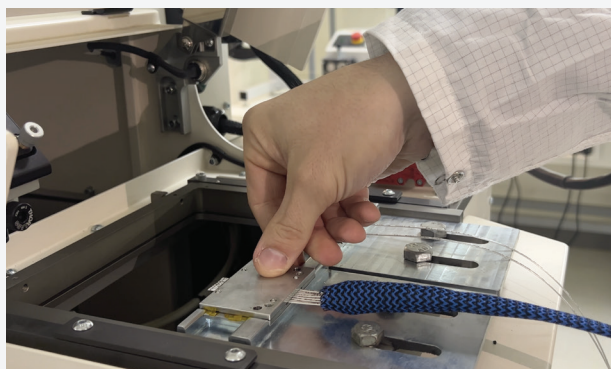
MultiLane SMPS twinax cable assemblies are fully capable of 112Gb/s & 224Gb/s data rates.

No Drain
224 Gb/s

Dual Drain
224 Gb/s

MultiLane leverages top-tier industry expertise and technology in twinax cable processing and termination technology to deliver plug and play ready twinax assemblies.

For more information reach out to:
sales@multilaneinc.com



multiLane



For technical info
fae@multilaneinc.com

For sales support
sales@multilaneinc.com

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