High-Speed Copper Flex Solutions

High-Speed (up to 56 Gbps NRZ) Copper Flex Solutions overcome design challenges for space-tight applications while enabling faster prototyping, lower tooling investments and airflow or thermal management enhancements.

Features and Advantages

Flex Cable Key Advantages:

Fast (56 Gbps NRZ protocol)
Use of rolled annealed copper (over electro-deposited copper) on foil gives higher signal integrity performance.
Less via-stub effects with flex cables compared to PCBs.
No glass-fiber reinforcement in flex cables as in PCBs.

Flat
- Thin, pliable flex cables
- Tighter bending radius
- Airflow enhancement

Flexible
- Component integration
- Signal and power circuit variation in flex

Copper Flex Jumper options
(Edge card applications)
Rigid-flex structure with gold finger. Compatible with edge card connector family.

Rigid-flex circuit assembly options
Rigid-flex structure simplifies configuration (integrating cable and PCB all in one piece). Enables mounting of active or passive components.

Front-panel integrated flex options
Uses with SlimStack Connector System. Front-panel device (USB, LED, switch button) integration. Overcomes space constraints.

Storage application options
Compatible with storage connectors including SAS, SATA and PCIe. Connects to thin, flat cables for tight bending radius and maximum space-savings.
High-Speed Copper Flex Solutions

Applications

Data/Telecom/Networking
- Servers
- High-end computers
- Storage servers
- Routers
- Switches

Automotive
- Connected mobility

Medical
- Digital information servers

Ordering Information

<table>
<thead>
<tr>
<th>Custom Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirror Mezz</td>
<td>Up to 96</td>
</tr>
<tr>
<td>Up to 56 Gbps</td>
<td></td>
</tr>
<tr>
<td>SpeedStack/SpeedEdge</td>
<td>Up to 22</td>
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<tr>
<td>Up to 56 Gbps</td>
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<tr>
<td>Searay</td>
<td>Up to 132</td>
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<tr>
<td>Up to 16 Gbps</td>
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<tr>
<td>SAS/SATA/PCIe</td>
<td>Depends on the connector</td>
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<tr>
<td>Up to 12 Gbps</td>
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<tr>
<td>SlimStack</td>
<td>Up to 25</td>
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<tr>
<td>Up to 16 Gbps</td>
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</tbody>
</table>

www.molex.com/link/highspeedflexassemblies.html

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