

Low Cost, High Performance Isolated Transmission Line Interconnects

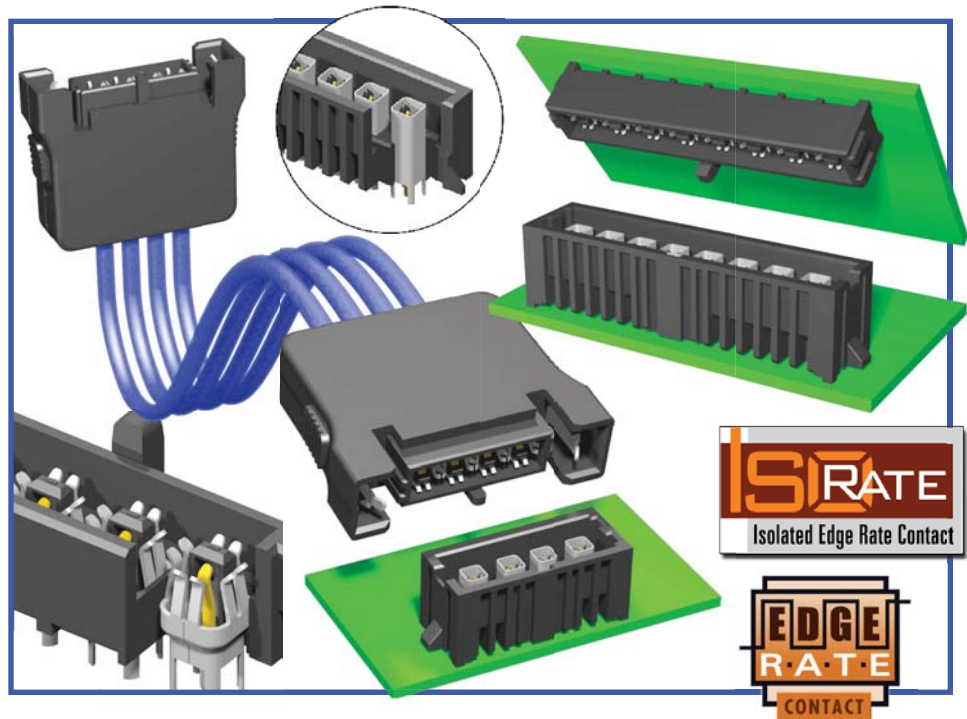
IsoRate™ is a high isolation interconnect system that can offer substantial savings over traditional RF connectors. IsoRate™ utilizes Edge Rate™ contacts to achieve high isolation at approximately half the cost of screw-machined RF systems.

1 Meter Cable Assembly	Frequency
Insertion Loss = 3 dB	9.5 GHz
Return Loss = 15 dB	2.2 GHz
VSWR = 1.4	2.1 GHz
Isolation = 60 dB	3.1 GHz

10mm Mezzanine Stackers	Frequency
Insertion Loss = 3 dB	10.5 GHz
Return Loss = 15 dB	5.5 GHz
VSWR = 1.4	5.4 GHz
Isolation = 60 dB	8.8 GHz
Isolation = 70 dB	7.6 GHz
Isolation = 80 dB	1.3 GHz

Contact SIG@samtec.com for additional test data.

IsoRate™ systems are available for Board-to-Board ([IP5/IP5](#) Series) and Cable-to-Board ([IJ5C](#) Series)



applications. Both application sets are currently compatible for 50Ω systems, while the [IJ7](#) and [IP7](#) are compatible for 75Ω systems.

Cable assemblies are available with high performance 50Ω, 26 AWG, RG 316 discrete wire. IsoRate™ assemblies range in

length from 10mm to 1m and offer a rugged positive latching mechanism as standard. Additional specifications and product links appear in the chart to the left.

IsoRate™ Board-to-Board interconnects offer rugged Edge Rate™ contacts in vertical and right angle configurations. The board-to-board stack height is 10mm, and the contact pitch is 4mm. IsoRate™ contacts can also be incorporated into traditional board-to-board connectors.

For more information, contact our Signal Integrity Group at SIG@samtec.com.

Isolated Transmission Line Jack & Plug	Isolated Transmission Line Cable Assembly
<p>IJ5/IP5</p> <ul style="list-style-type: none"> • Rows: Single or Double • Positions: 1, 2, 4, 6, or 8 per row • Centerline: 4mm (.1575") • Stack Height: 10mm • Orientation: Vertical and Right Angle • Status: Released • Jack: IJ5 • Plug: IP5 	<p>IJ5C</p> <ul style="list-style-type: none"> • Rows: Single • Positions: 1, 2, 4, 6, or 8 per row • Centerline: 4mm (.1575") • Wire: 26 AWG, RG 316 coax cable • Features: Positive Latching • End Options: Plug • Status: Released • Cable Assembly: IJ5C