



HIGH-SPEED CABLE

INTERCONNECT SOLUTIONS GUIDE

HIGH-SPEED CABLE SOLUTIONS



SAMTEC FLYOVER™ ARCHITECTURE

Flexibility to improve signal integrity reach at higher data rates
In-house high level design and engineering support
Expertise in full system signal integrity optimization

FLEXIBILITY & CUSTOMIZATION

Mix-and-match connector end options
Extensive customizing capabilities
Modular backplane flexibility



MANUFACTURING & CAPABILITIES

R&D/manufacturing of precision extruded cable
Co-extruded, ultra low skew twinax cable technology
Samtec Flyover™ designs route signals above lossy PCB

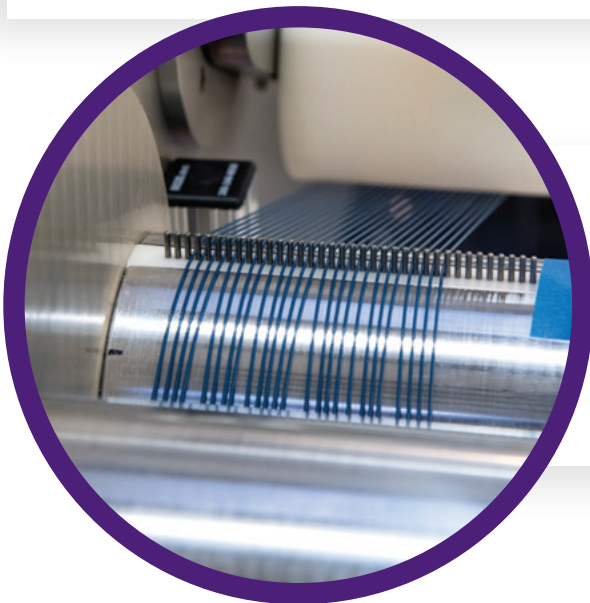


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HIGH-SPEED CABLE SYSTEMS

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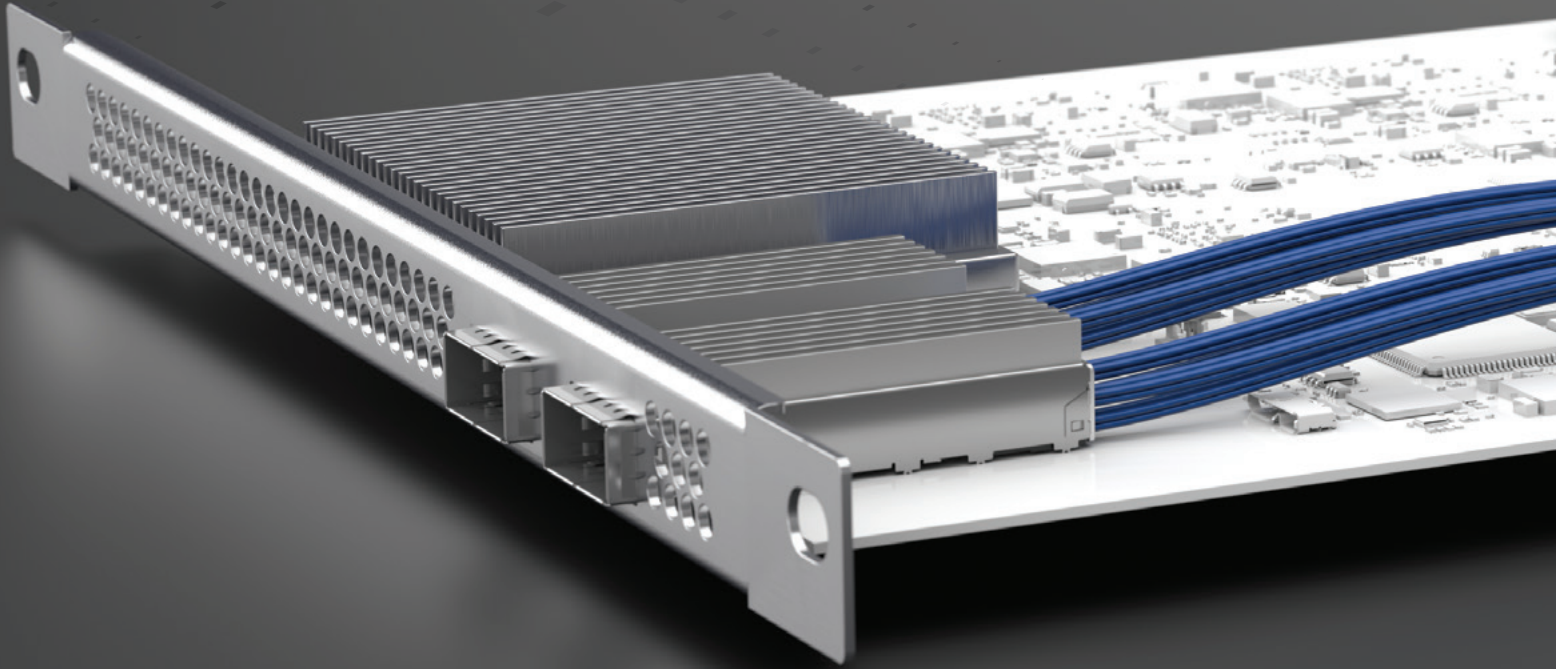
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CABLE SPECIFICATIONS

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SAMTEC FLYOVER™ TECHNOLOGY



THE PROBLEM PCB REACH AT NEXT GEN SPEEDS

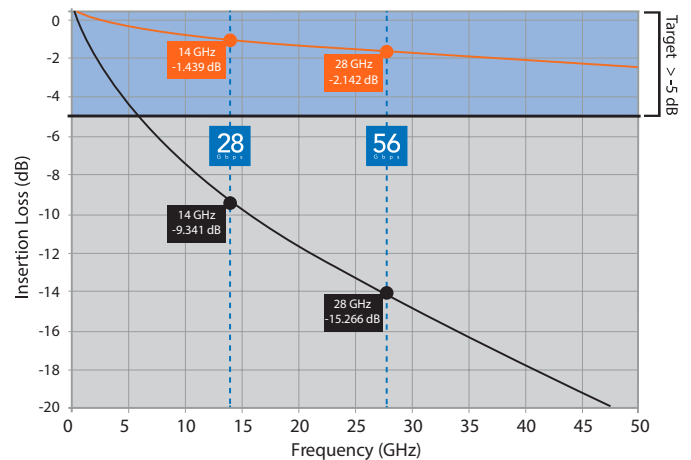
As bandwidth requirements rapidly increase, effectively managing heat and routing signals through lossy PCBs, vias and other components have become complex challenges.

BANDWIDTH VS. TRADITIONAL & HIGH-SPEED MATERIALS				
	FR408	MEGTRON 6	MICRO TWINAX	OPTICS
10 Gbps	up to 10"	10"+	up to 39"	100 m+
14 Gbps	up to 5"	up to 10"	up to 33"	100 m+
28 Gbps	up to 2"	up to 5"	up to 23"	up to 100 m
56 Gbps	0.0"	up to 2"	up to 12"	TBD
112 Gbps	0.0"	0.0"	up to 6"	TBD

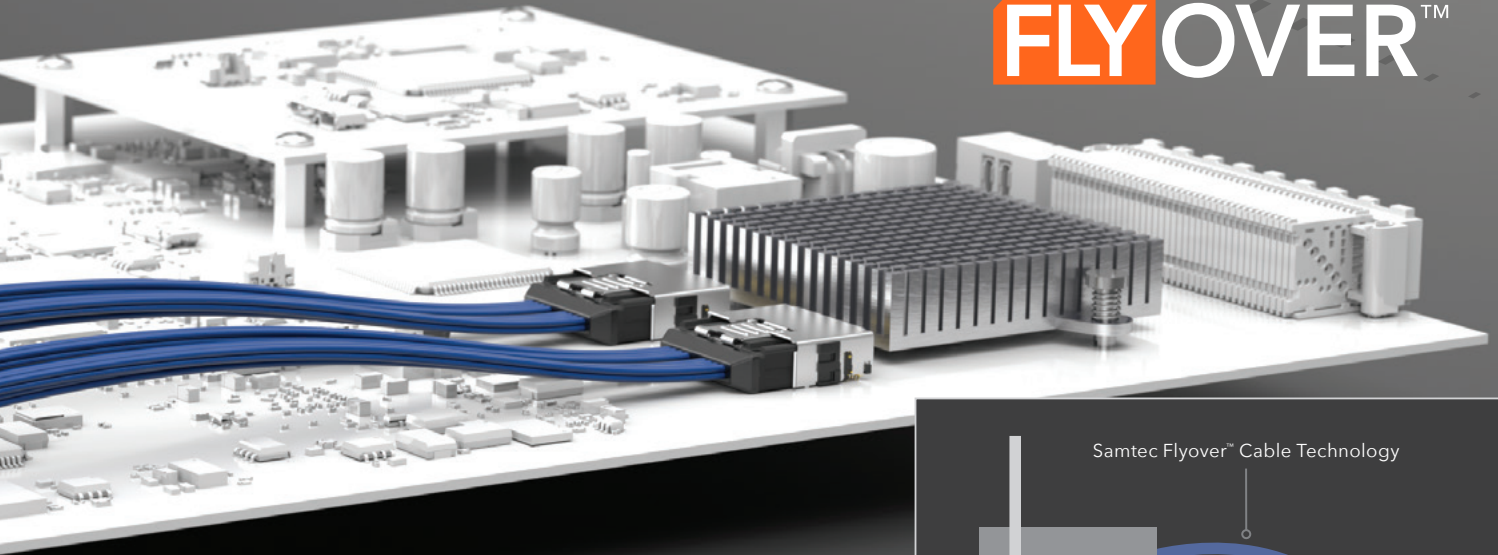
(-5 dB Loss Target, Reach Estimate. For OIF VSR applications.)

THE SOLUTION SAMTEC FLYOVER™ SYSTEMS

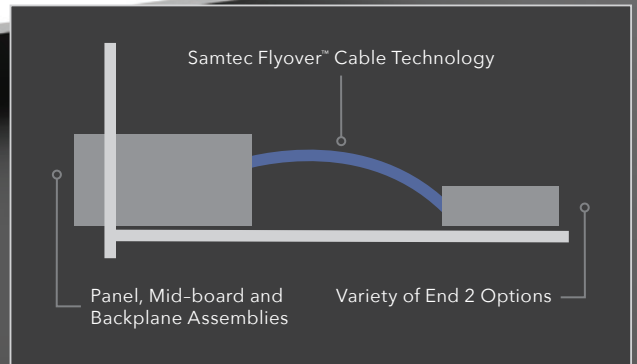
Samtec Flyover™ design breaks the constraints of traditional signaling substrate and hardware offerings, resulting in a cost-effective, high-performance and heat efficient answer to the challenges of 56 Gbps bandwidths and beyond.



■ 30 AWG 100 Ω Low Skew Twinax Cable
 ■ MEG6 Backplane PCB trace, 5.7 mil wide, 8.3 mil space

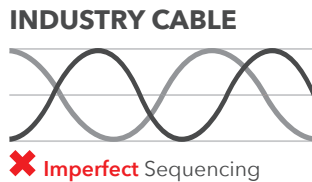


Samtec Flyover™ design provides end option flexibility to create a high-speed application specific solution to meet next gen speeds.



ULTRA LOW SKEW CABLE TECHNOLOGY

- Ideal for 28-112+ Gbps applications
- Tight coupling between signal conductors
- Ultra low skew twinax < 3.5 ps/meter
- See page 22-23 for cable specifications



PERFORMANCE & COST ADVANTAGES

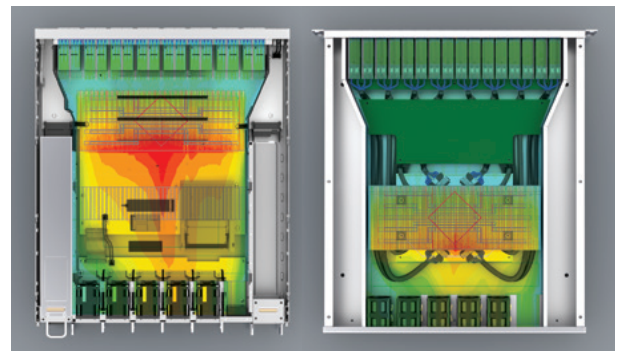
- 28-56 Gbps NRZ & Beyond
- Simplified Board Layout
- Fewer PCB Layers
- Less Expensive PCB Materials
- Eliminate Expensive Re-timers

NRZ	PAM4	NRZ	PAM4
28 Gbps	56 Gbps	56 Gbps	112 Gbps

SUPPORT

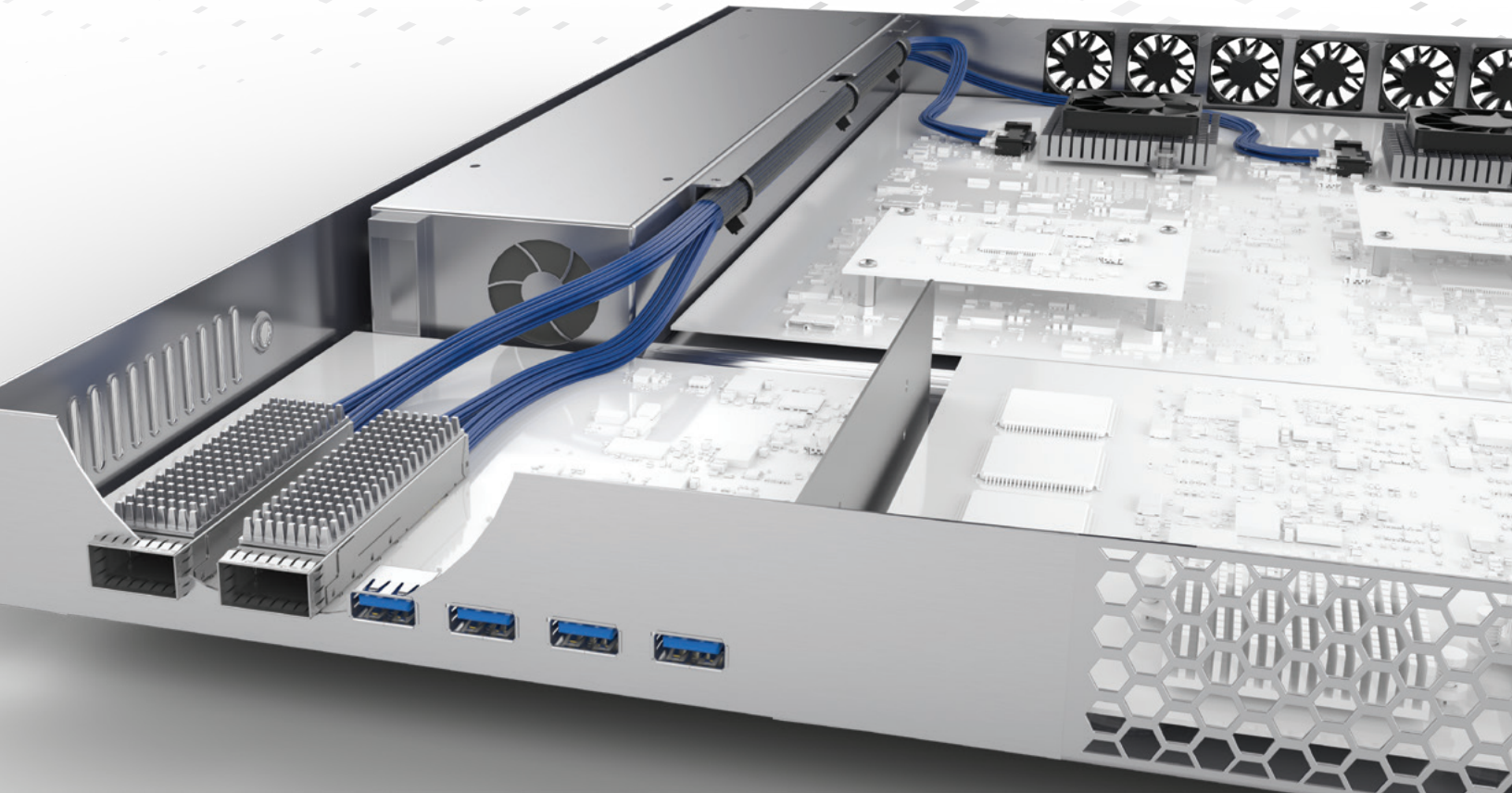
Fully integrated Technology Centers for full system optimization from Silicon-to-Silicon. See page 20-21 for information about Samtec's High-Speed Cable Group.

THERMAL IMPROVEMENT



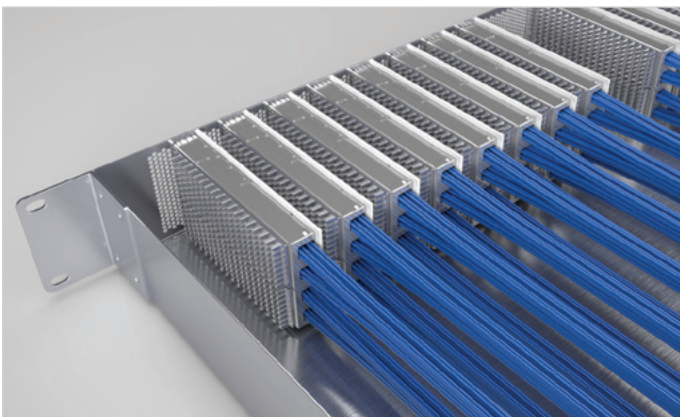
Standard Network Switch vs. Samtec Flyover™ Technology

SAMTEC FLYOVER™ PANEL ASSEMBLIES



DIRECT ATTACH QSFP28 SYSTEMS

QSFP28 systems utilize Samtec Flyover™ technology to route data above lossy PCB, simplifying board layout and extending signal reach. The modular design enables optimized systems that improve heat management, increase signal integrity performance, build in scalability for future upgrades and reduce costs by creating a multifunction board.



Standard 1U rack tray with side stackable configurations



Increases panel density and optimizes airflow

SAMTEC FLYOVER™ QSFP28 SYSTEM

4 Channels (x4 bidirectional, 8 differential pairs)

~100 Gbps NRZ aggregate (~200 Gbps PAM4)

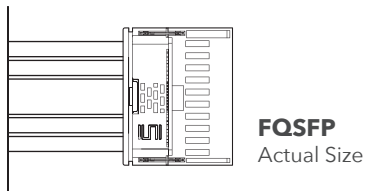
Compatible with all MSA QSFP pluggables

Heat dissipation: ~3.5 W/cable

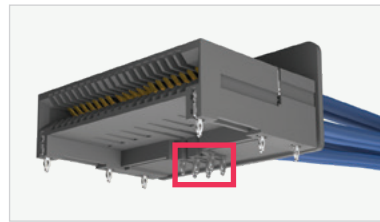
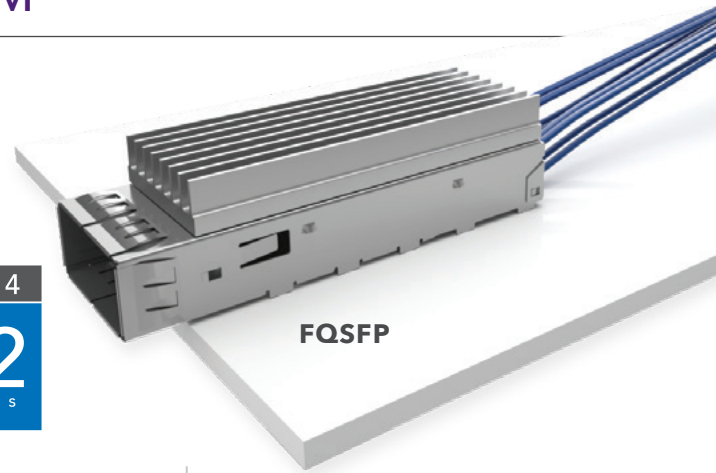
Eye Speed® 30 or 34 AWG twinax cable
(See page 22 for specifications)

Multiple end 2 options for design flexibility

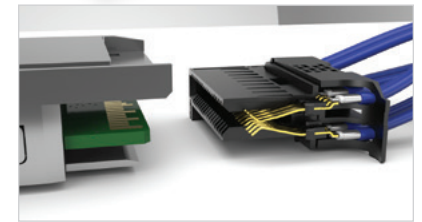
Characterization Kit available
(REF-200471-X.XX-XX), visit samtec.com/kits



NRZ	PAM4
56 Gbps	112 Gbps



Localized press-fit control and power contacts eliminate the need for a secondary cable and connector



High-speed contacts directly soldered to Eye Speed® ultra low skew twinax

DOUBLE DENSITY QSFP28 SYSTEM

8 Channels (x8 bidirectional, 16 differential pairs)

~200 Gbps NRZ aggregate (~400 Gbps PAM4)

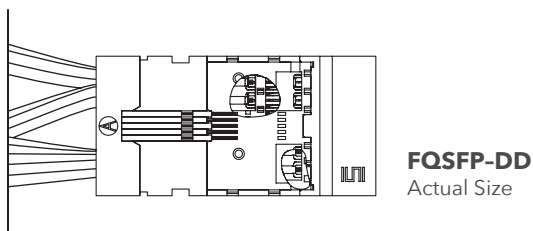
Belly-to-belly mating for maximum density

Backward compatible with QSFP modules

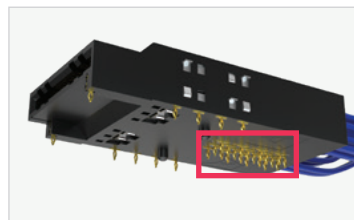
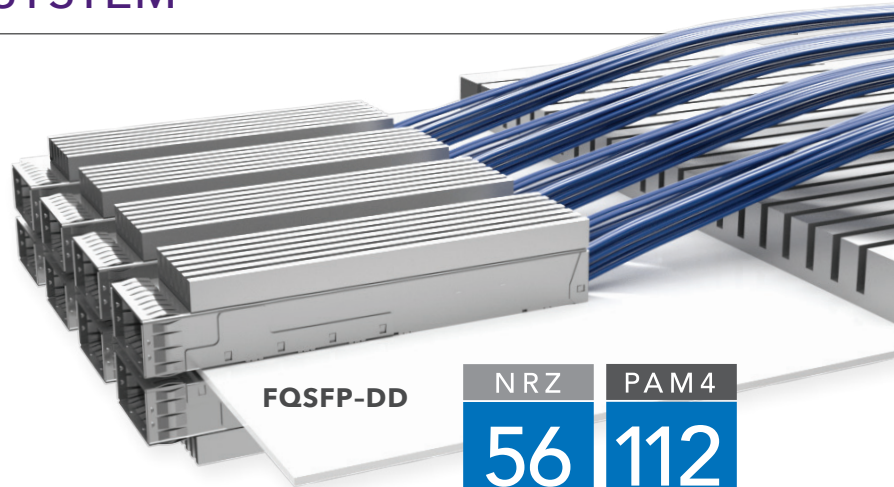
Heat dissipation: ~7+ W/cable

Variety of end 2 options

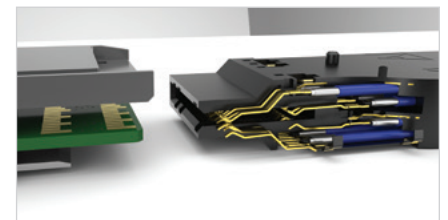
Characterization Kit available
(REF-203424-X.XX-XX), visit samtec.com/kits



NRZ	PAM4
56 Gbps	112 Gbps



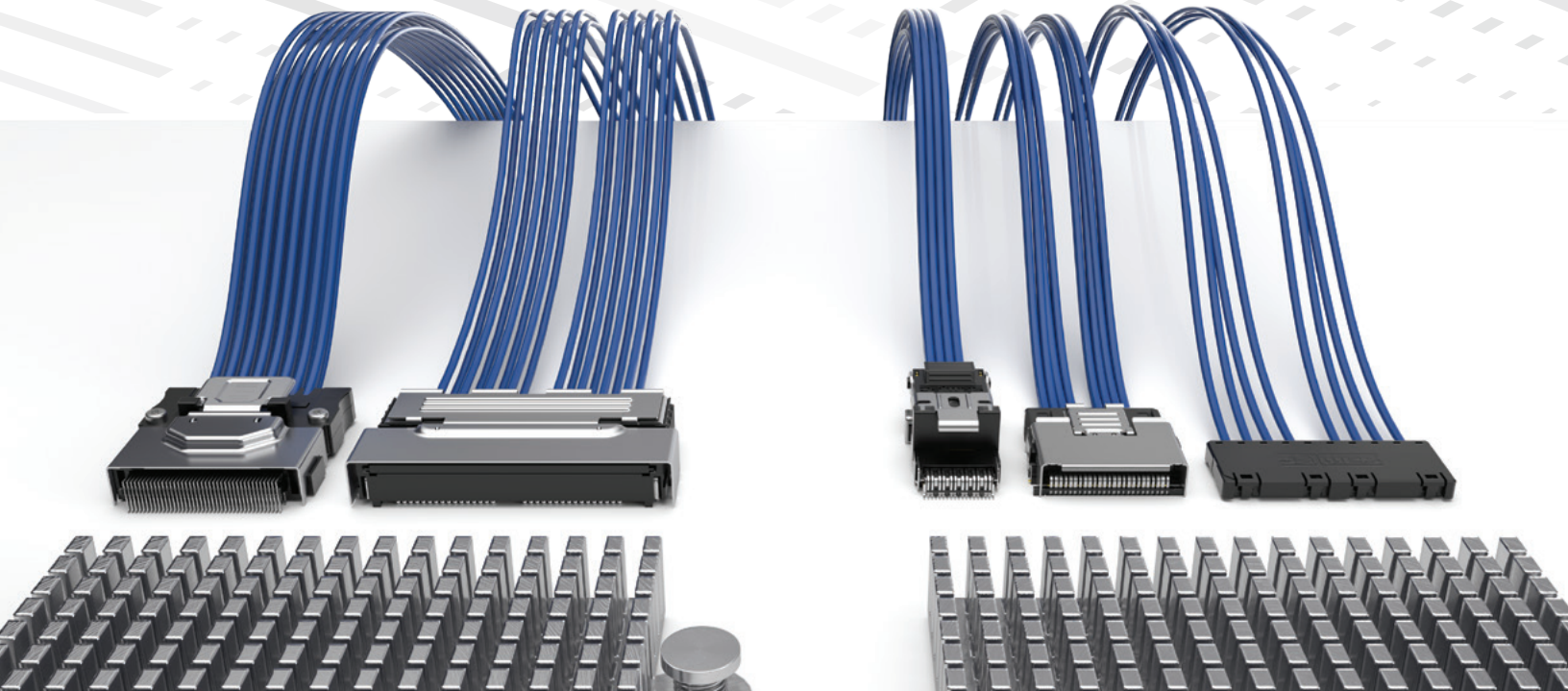
Sideband signals are routed through press-fit contacts for increased airflow



High-speed contacts directly soldered to Eye Speed® ultra low skew twinax

SAMTEC FLYOVER™

MID-BOARD ASSEMBLIES



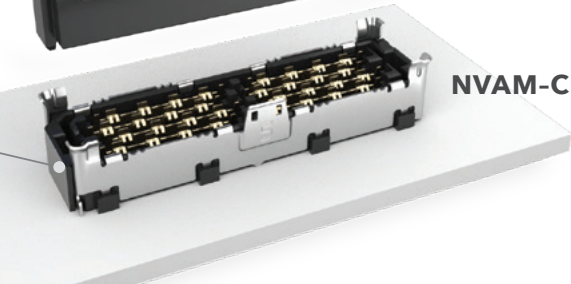
EXTREME HIGH-SPEED, HIGH-DENSITY CABLE

NOVARAY®

8 to 32 signal pairs with two reliable points of contact guaranteed; 72 pairs in development



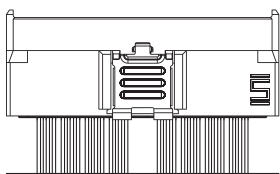
BGA attach for density and optimized trace breakout region



NRZ	PAM4
56 Gbps	112 Gbps

Industry leading aggregate data rate density – 2x the data rate in 60% of the space

Proprietary pin to ground configuration enables very low crosstalk (to 40 GHz) and very tight impedance control



NVAC Actual Size
(2 Bank, 4 Row, 32 Pairs)

Aggregate Data Rate (NRZ)					
448 Gbps	672 Gbps	896 Gbps	1344 Gbps	1792 Gbps	4032 Gbps*
1 Bank			2 Bank		3 Bank*
2 Row	3 Row	4 Row	2 Row	3 Row	4 Row
8 Pairs	12 Pairs	16 Pairs	24 Pairs	32 Pairs	72 Pairs*

***In development**

SLIM BODY CABLE ASSEMBLY

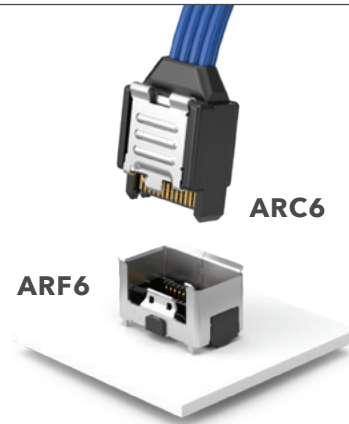
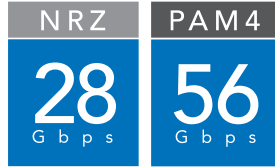
Slimmest cable assembly in the industry - 7.6 mm body width

High-density 2-row design

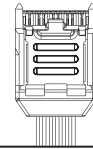
8 and 16 pair configurations (24 pair in development)

Eye Speed® 34 AWG ultra low skew twinax (See page 22 for specifications)

Characterization Kit available (REF-203425-X.XX-XX), visit samtec.com/kits



Right-angle available



ARC6 Actual Size (8 Pairs)

ACCELERATE®

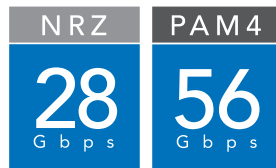
DIRECT CONNECT™ HORIZONTAL CABLE

Ultra-low 3 mm profile saves space for high-density applications

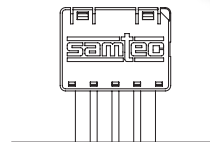
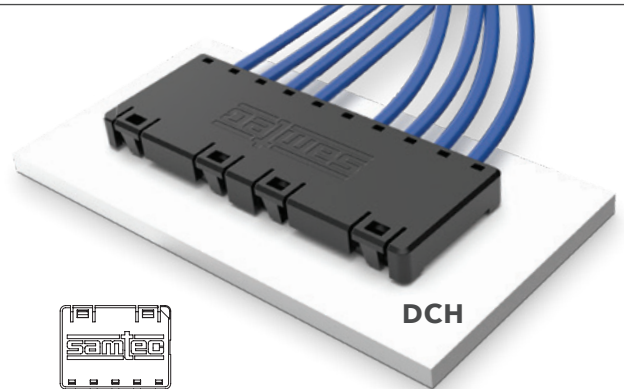
4 and 8 pair configurations

Supports and surpasses PCIe® Gen 3 speeds at 2 meters

Characterization Kit available (REF-202013-X.XX-XX), visit samtec.com/kits



Press-fit termination for high retention



DCH Actual Size (4 Pairs)

FIREFLY™ COPPER SYSTEMS

High-performance, high-density copper Samtec Flyover™ solution

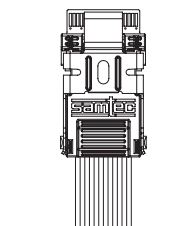
Pin compatible with FireFly™ optical using the same connector system (ECUO; see pages 12-13)

x4, x8 and x12 configurations

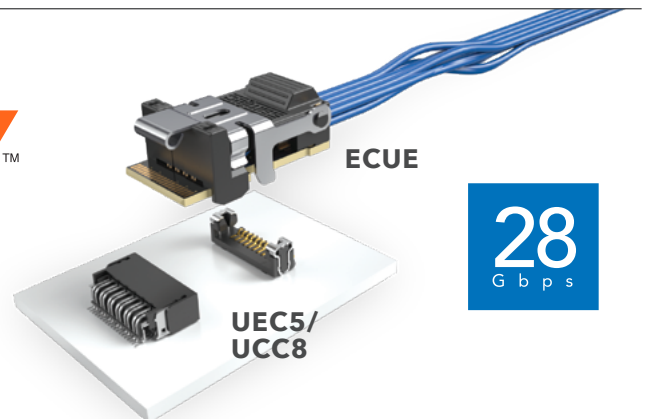
PCIe® Gen 4 compatible system (PCUE)

Characterization Kit available (REF-201830-XX), visit samtec.com/kits

FIREFLY™



ECUE Actual Size (x12)



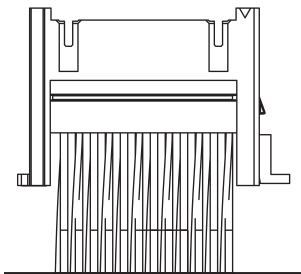
PCI-SIG®, PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

BACKPLANE CABLE ASSEMBLIES



HIGH-SPEED BACKPLANE CABLE

ExaMAX[®]



EBCF Actual Size
(72 Pairs Total)



EBCF

**EBTM/
EBCL**

NRZ	PAM4
56 Gbps	112 Gbps

Utilizes Samtec's Eye Speed[®] ultra low skew twinax cable technology for improved signal integrity, increased flexibility and routability

Highly customizable with modular flexibility

Reduce costs due to lower PCB layer counts

See page 22 for **co-extruded** twinax cable specifications

Characterization Kit available (REF-205463-01), visit samtec.com/kits

ExaMAX[®] is a registered trademark of AFCI.

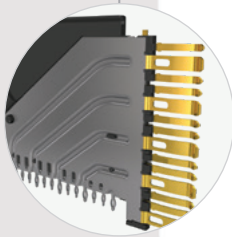
Industry's lowest mating force with excellent contact normal force

EBTF-RA

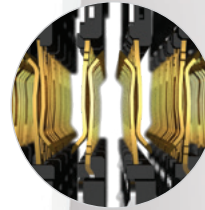


EBCB

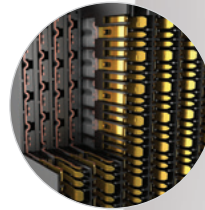
Wafer design increases isolation for reduced crosstalk
Includes one sideband signal per column



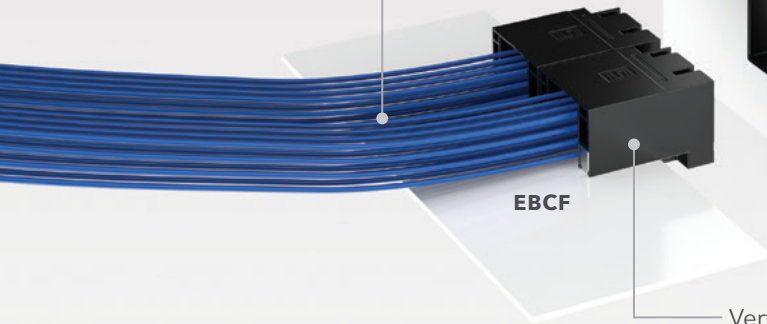
Two reliable points of contact with a 2.4 mm wipe



Staggered differential pairs provide higher data rates



30 and 34 AWG ultra low skew twinax cable to support various cable lengths



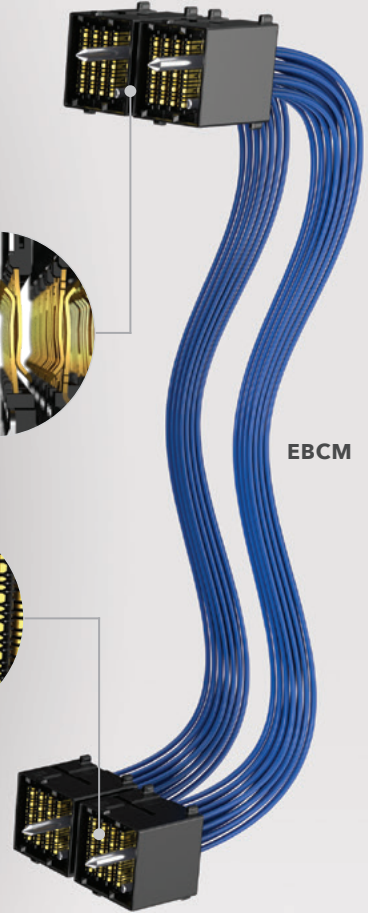
EBCF



EBCB

Vertical and right-angle

Designed for blind-mate systems



EBCM



4 and 6 pairs;
6, 8, 10 and 12 columns



Intermateable with all ExaMAX® connectors (EBTM/EBTF-RA)

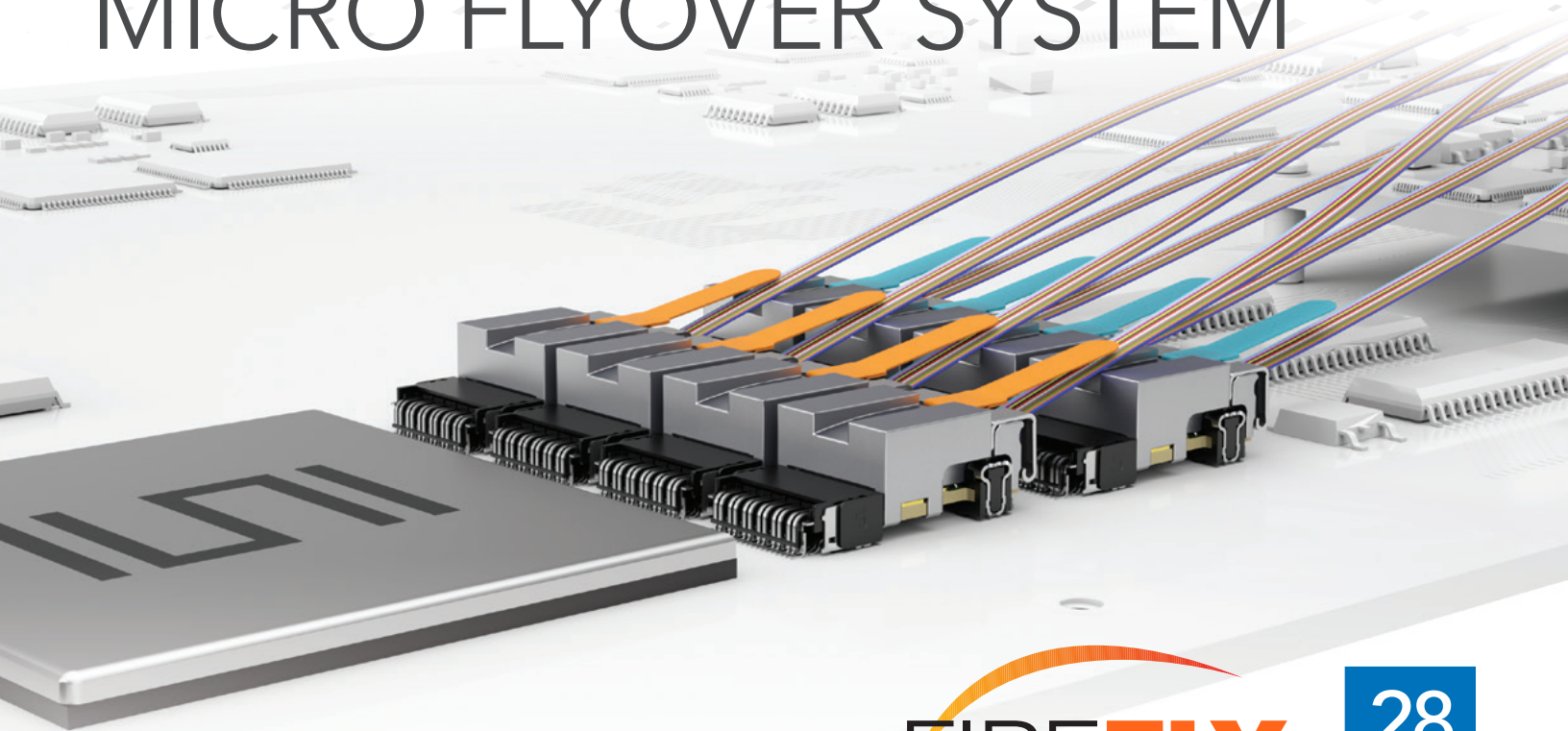


Integrated guidance and keying options



Cable-to-DMO (Direct Mate Orthogonal)

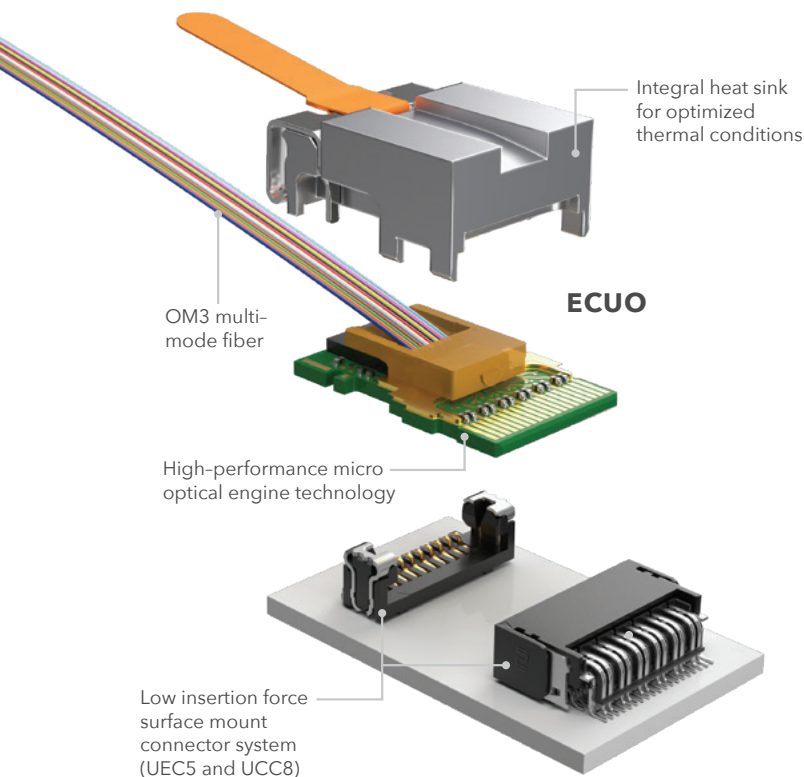
FIREFLY™ OPTICAL MICRO FLYOVER SYSTEM™



FIREFLY™ OPTICAL TECHNOLOGY

FIREFLY™

28
Gbps



Data connection is taken "off board," simplifying board layout and enhancing signal integrity from IC to faceplate

Industry leading miniature footprint allows for higher density close to the data source

Rugged, simple to use system with easy insertion/removal and trace routing

Supports data center, HPC and FPGA protocols, including Ethernet, InfiniBand™, Fibre Channel, Aurora and PCIe®

Gen 1:
Up to 20 Gbps



Gen 2:
20+ Gbps



0.50 mm pitch high-speed data connector available in two generations (UEC5)

FIREFLY™ OPTICAL SYSTEMS

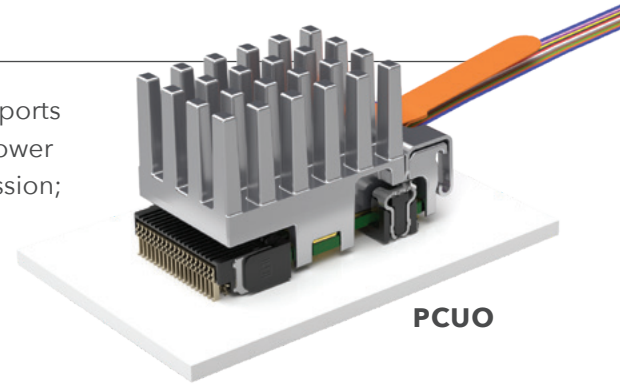
Designed for flexibility, optical (ECUO) for greater distances and copper (ECUE; page 9) for cost optimization

x4 and x12 configurations

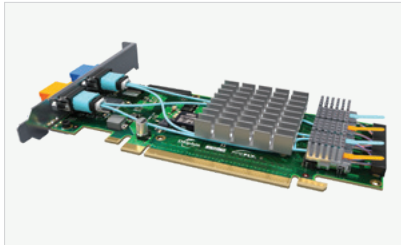
Multiple end 2 options including MTP®, MXC®, MT and ARINC 801

PCIe®-Over-FireFly™ (PCUO) supports PCIe® protocol for low latency, power savings and guaranteed transmission; Gen 4 in development

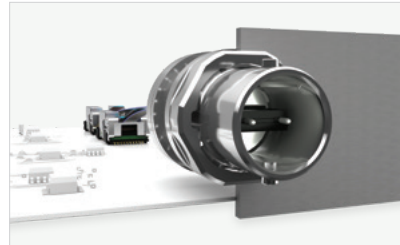
-40 °C to +85 °C extended temperature system (ETUO); PCIe® version available (PTUO)



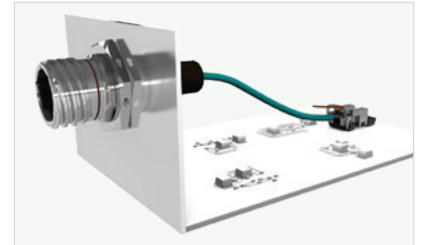
PCUO



PCIe®-over-Fiber adaptor card (PCOA), available in x4, x8 or x16 configurations, supports Gen 3 platform and transparent or non-transparent bridging



Optical FireFly™ to ARIB STD-B58 BNC-type interface with MT ferrule for ultra-high density applications



Extended temperature FireFly™ with Amphenol® Aerospace's bulkhead interconnects (MT38999) for rugged applications

Amphenol® is a registered trademark of Amphenol Corp.

PASSIVE & ACTIVE OPTICAL SOLUTIONS

FireFly™ is compatible with optical backplane systems in multiple configurations

PCIe® Active Optical assemblies for Gen 3 speeds up to 100 m (PCIEO)

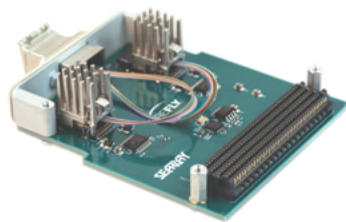
High-density solutions for front panel or backplane applications with MXC® connectors

Industry standard passive MPO-to-MPO panel adaptor (OPA) and optical patch cable (FOPC)

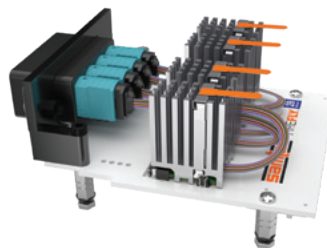
MTP® and MXC® are registered trademarks of US Conec Ltd.

FIREFLY™ TEST & DEVELOPMENT KITS

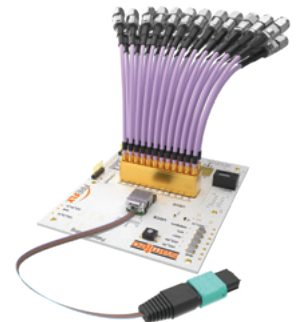
For more information visit samtec.com/kits or contact kitsandboards@samtec.com.



14 Gbps FireFly™ FMC Development Kit (REF-193429-01)

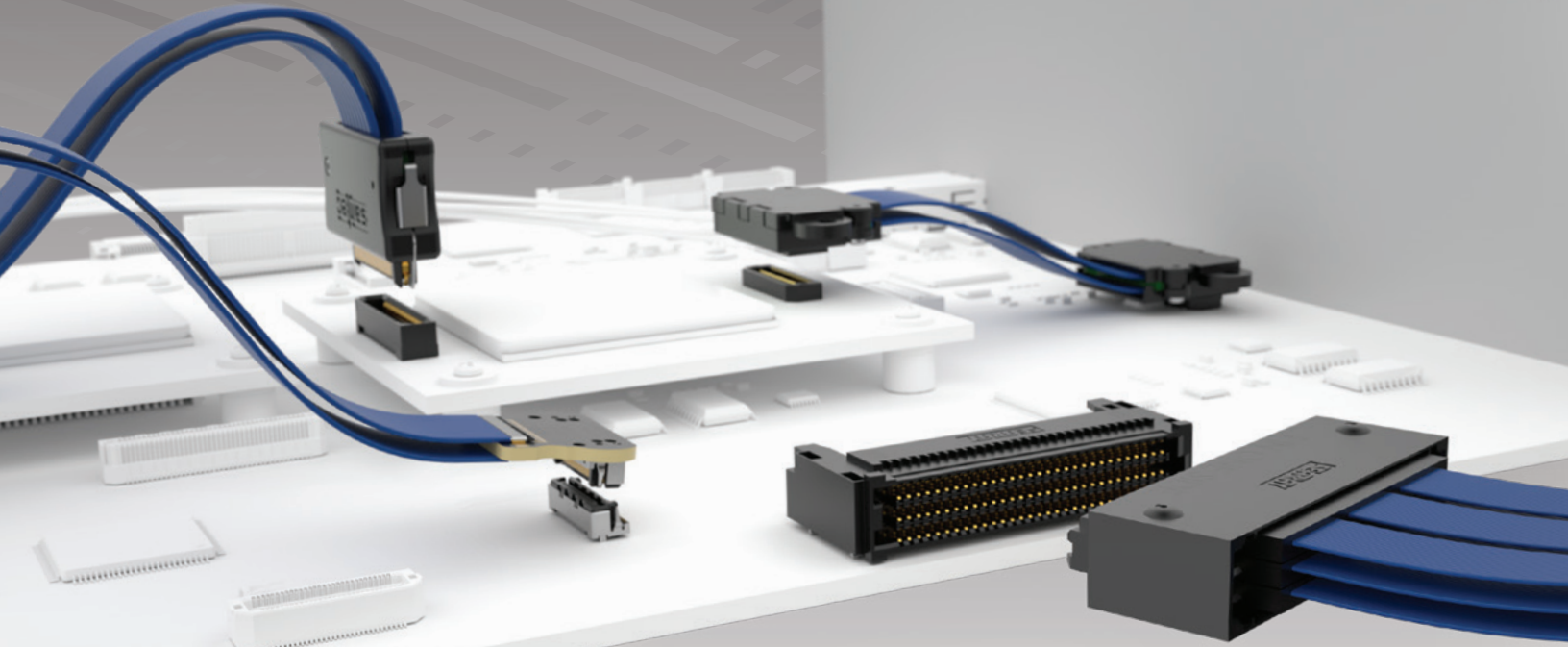


25/28 Gbps FireFly™ FMC+ Development Kit (REF-200772-XXX-XX-01)



FireFly™ Test Kit (FIK-FIREFLY-XX)

HIGH-SPEED CABLE ASSEMBLIES



14
Gbps

MICRO COAX & TWINAX CABLE ASSEMBLIES

Ability to mix-and-match end options for application-specific requirements with extensive customizing capabilities

Single-ended 50 Ω and differential 100 Ω standards

Rugged features and options including strain relief, plastic housings, screw downs, latches, locks, etc.

Many non-cataloged standards available including 75 Ω micro coax and high-density twinax solutions

EYE[®] SPEED[®] CABLE EYE SPEED[®] CABLE TECHNOLOGY

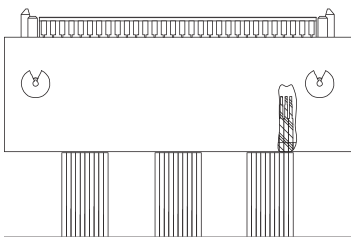
Excellent signal integrity performance with individual copper serve or braid shielding

Stranded conductor for small bend radii and dynamic high flexing cycle applications

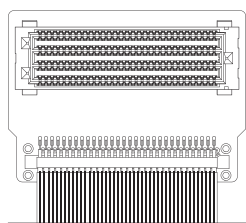
Cost-effective ribbonizing eliminates discrete wires

26-38 AWG coax and twinax construction
(See page 22-23 for specifications)

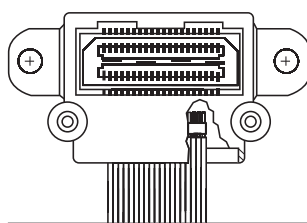
20 Ω , 50 Ω , 85 Ω and 100 Ω



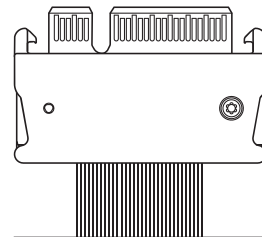
SEAC Actual Size
(30 Positions/Row)



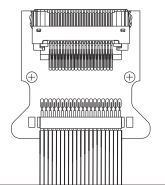
ESCA Actual Size
(30 Positions/Row)



EQCD Actual Size
(20 Positions/Row)



ECDP Actual Size
(16 Pairs Total)



HLCD Actual Size
(20 Positions/Row)

HIGH-DENSITY ASSEMBLIES

1.27 mm (SEAC) and
0.80 mm pitch (ESCA)

34 or 36 AWG coax; 32 AWG twinax

Mates with SEARAY™ and
SEARAY™ 0.80 mm arrays

Optional rugged latching



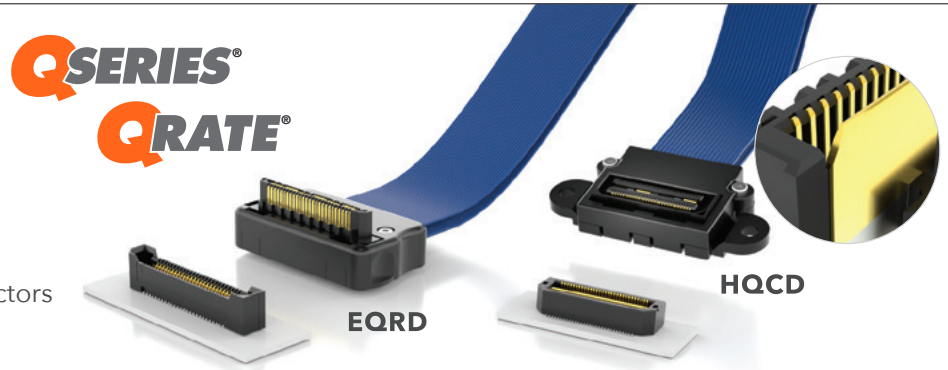
GROUND PLANE ASSEMBLIES

Integral power/ground plane

34 and 38 AWG coax; 30 AWG twinax

0.50 mm (HQCD/HQDP) and
0.80 mm pitch (EQCD/EQDP/EQRD)

Mates with Q Series® and Q Rate® connectors

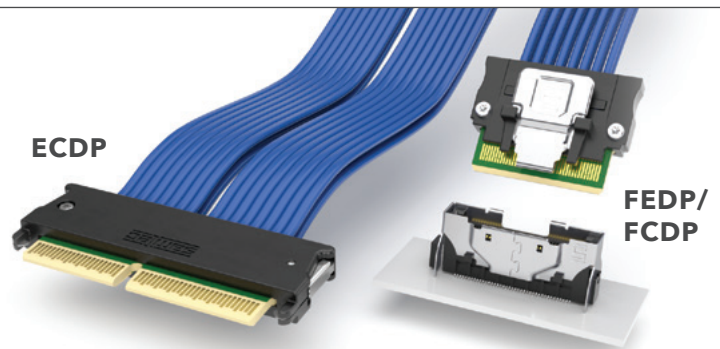


EDGE CARD ASSEMBLIES

14 Gbps (ECDP) and 16 Gbps (FEDP) performance

30 AWG twinax (ECDP); mates with 0.80 mm pitch
edge cards (HSEC8)

34 AWG ultra low skew twinax (FEDP); mates with
0.50 mm pitch edge card (FCDP)



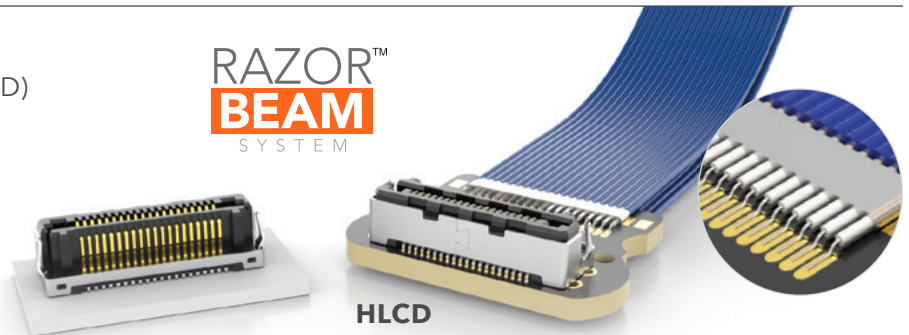
HIGH-SPEED ASSEMBLIES

Ultra-micro hermaphroditic Razor Beam™
coax assemblies with rugged shielding (HLCD)

0.80 mm pitch Edge Rate® coax and
twinax assemblies (ERCD, ERDP)

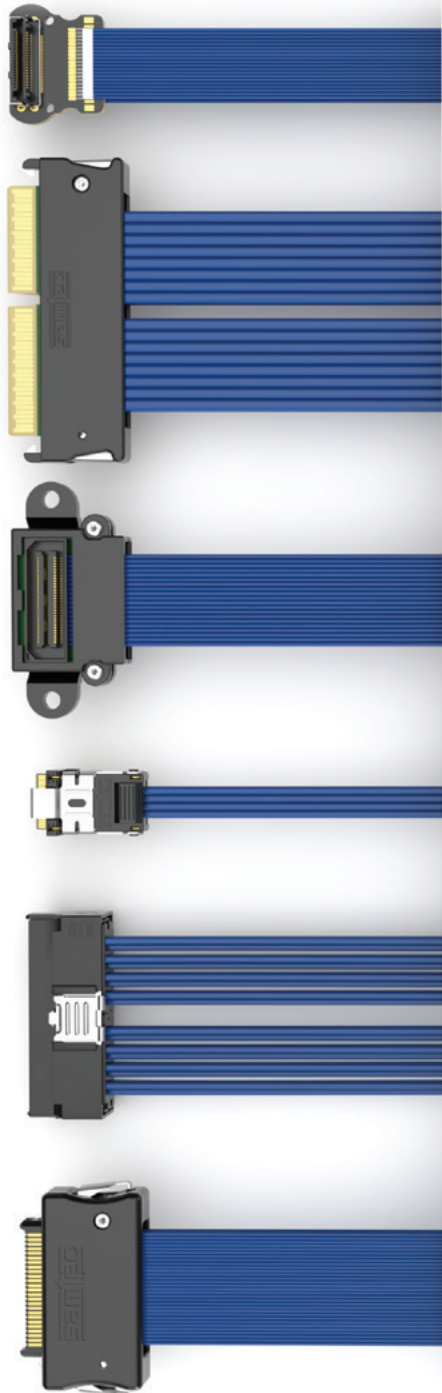
PCI Express® twinax assemblies support
1, 4, 8 and 16 links (PCIEC)

34 or 38 AWG coax and 30 AWG
twinax assemblies



CUSTOMIZED HIGH-SPEED ASSEMBLIES

EXTREME FLEXIBILITY



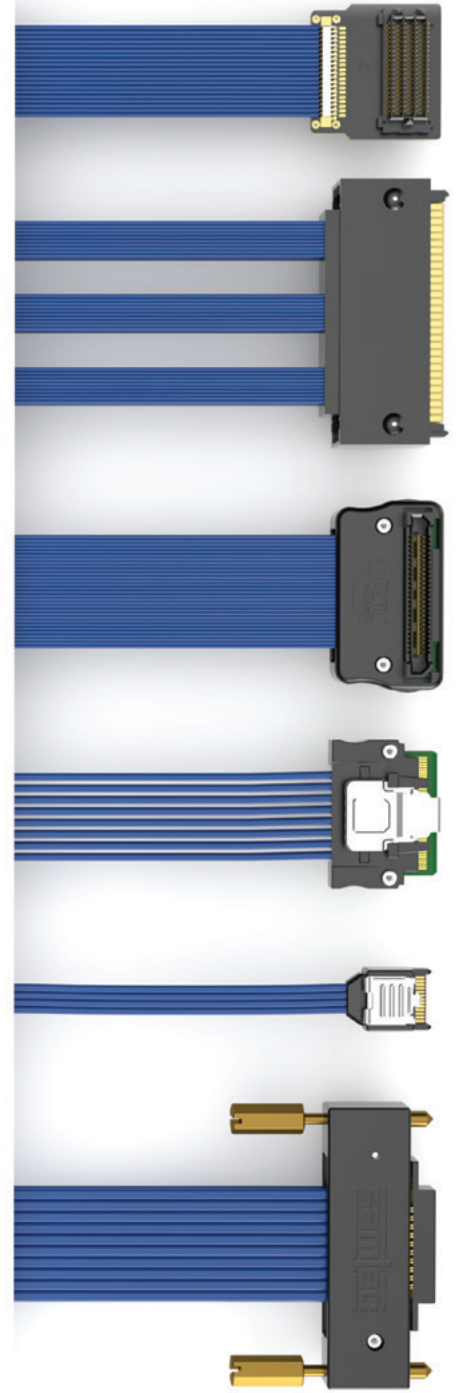
ANY
high-speed
connector

ANY
break-out
configuration

ANY
high-speed
precision cable

... to create a solution for
any specific application

HDR@samtec.com



WILLINGNESS, SUPPORT & EXPERTISE

Engineering, design and prototype support

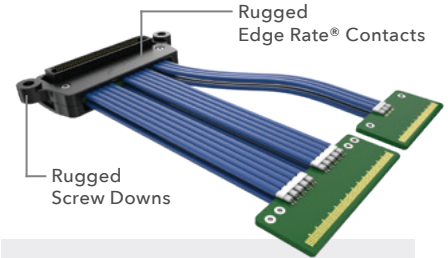
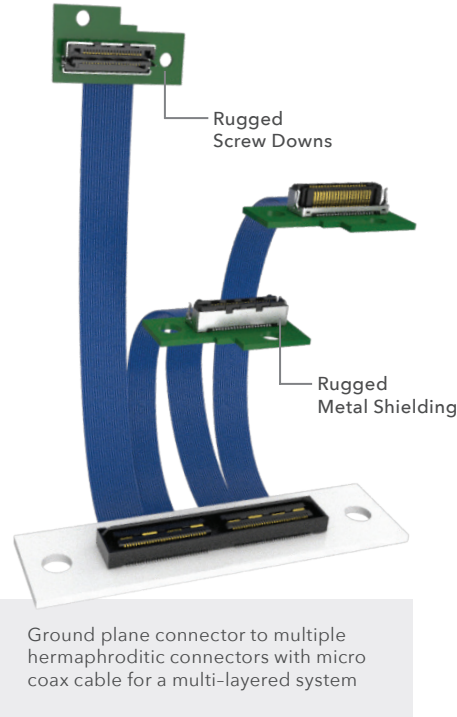
Design, simulation and processing assistance

Quotes and samples turned around in 24 hours

Flexible, quick-turn manufacturing

Dedicated Application Specific Product engineers and technicians

Modified or custom options for cable assemblies and board level connectors include: contacts, bodies, stamping, plating, wiring, molding, ruggedizing features and much more

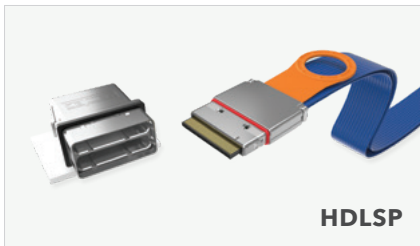


Rugged, high-speed Edge Rate® cable assembly with custom signal mapping to edge card



Double-ended micro coax cable assembly with two panel mount ground plane connectors

HIGH-SPEED I/O SYSTEMS



HDLSP

HIGH-DENSITY I/O ASSEMBLIES

Industry's densest I/O cable system

HyperTransport™ HT 3.1 performance

32 AWG low skew pair twinax cable

Mates with HDI6 (connector) and HDC (cage)



EPLSP

RUGGED I/O ASSEMBLIES

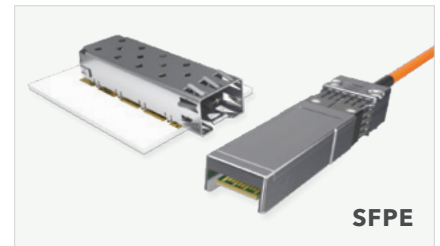
Space saving 0.80 mm pitch

High-cycle two-piece system

Shielded for EMI protection

32 AWG low skew pair twinax cable

Mates with ER18 (connector) & ERC (cage)



SFPE

SFP+ PASSIVE JUMPERS

Up to 10 Gbps data transmission

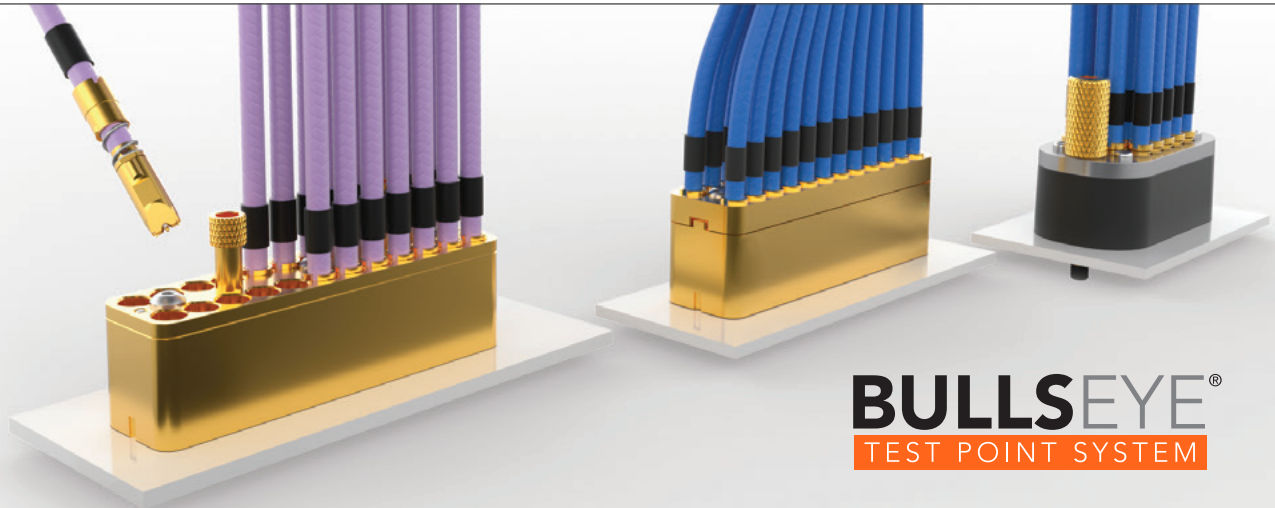
Compliant to SFP+, SFP, XFP and XENPAK

32 AWG low skew pair twinax cable

Mates with MECT (connector) and SFPC (cage)

HIGH-PERFORMANCE TEST TO 65 GHz

BULLS EYE® TEST POINT SYSTEM



BULLSEYE®
TEST POINT SYSTEM

High-performance test to 65 GHz

High-density array designs & high cycle count

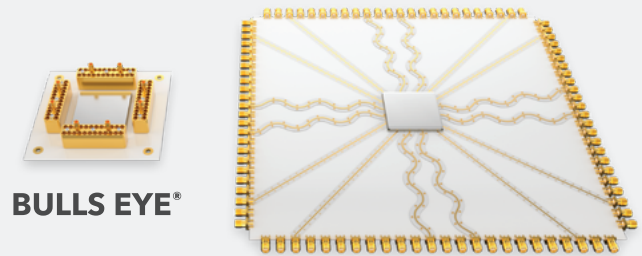
Advanced microwave cabling solutions

Compression interface to the board provides easy on/off and eliminates soldering costs

Small footprint design saves board space

Microstrip or Stripline PCB transmission

Cable management available with protective sleeve



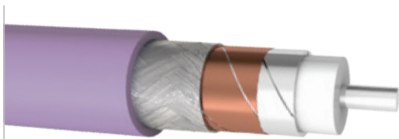
BULLS EYE®

Traditional with SMAs

Bulls Eye® enables smaller evaluation boards and shorter trace lengths.

SAMTEC MICROWAVE CABLE

50 Ω, 23 AWG HIGH-DYNAMIC STABILITY



Insertion Loss	0.25 m	1 m
-3 dB	>40 GHz	13 GHz
-7 dB	>40 GHz	>40 GHz

Used with BE40A



Insertion Loss	0.25 m	1 m
-3 dB	>20 GHz	16.6 GHz
-7 dB	>20 GHz	>20 GHz

Used with BDRA and BQRA

65 GHz & 50 GHz BULLS EYE® ASSEMBLIES

65 GHz with fixed-pin for signal/ground
(BE65A, in development)

50 GHz with pogo-pin for signal/ground (BE40A)

High-density double row; 50 Ω impedance

086 ultra-low loss microwave cable (BE65A)
or high-stability microwave cable (BE40A)

End 2: 1.85 mm (BE65A), 2.40 mm and
2.92 mm (BE40A)

BE65A/BE40A



20 GHz BULLS EYE® ASSEMBLIES

Fixed-pin for signal and elastomer for ground

Double-row (BDRA) or quad-row (BQRA) arrays

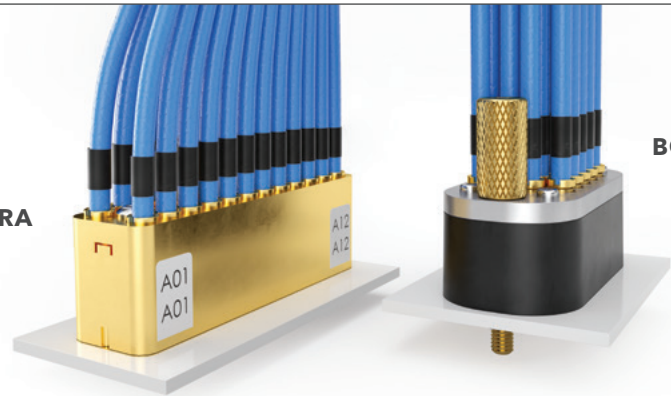
23 AWG low-loss microwave cable

End 2: 2.92 mm

BE40A is backward compatible with BDRA

BDRA

BQRA



PRECISION RF ASSEMBLIES & INTERCONNECTS

High-frequency bands from 18 GHz to 110 GHz

Includes: 1.0 mm, SMPM, 1.85 mm, 2.40 mm,
SMP, SSMA, 2.92 mm, 3.50 mm, N Type,
TNC, SMA

2.92 mm cross-mateable to other
industry standards (SMA)

2.40 mm and 1.85 mm are intermateable

1.0 mm to 110 GHz

Microwave/millimeter wave assemblies

Contact RFTechnicalGroup@samtec.com

Highest level of customer service and support in the industry: launch designs, custom product solutions, simulations, and physical test and measurement verifications

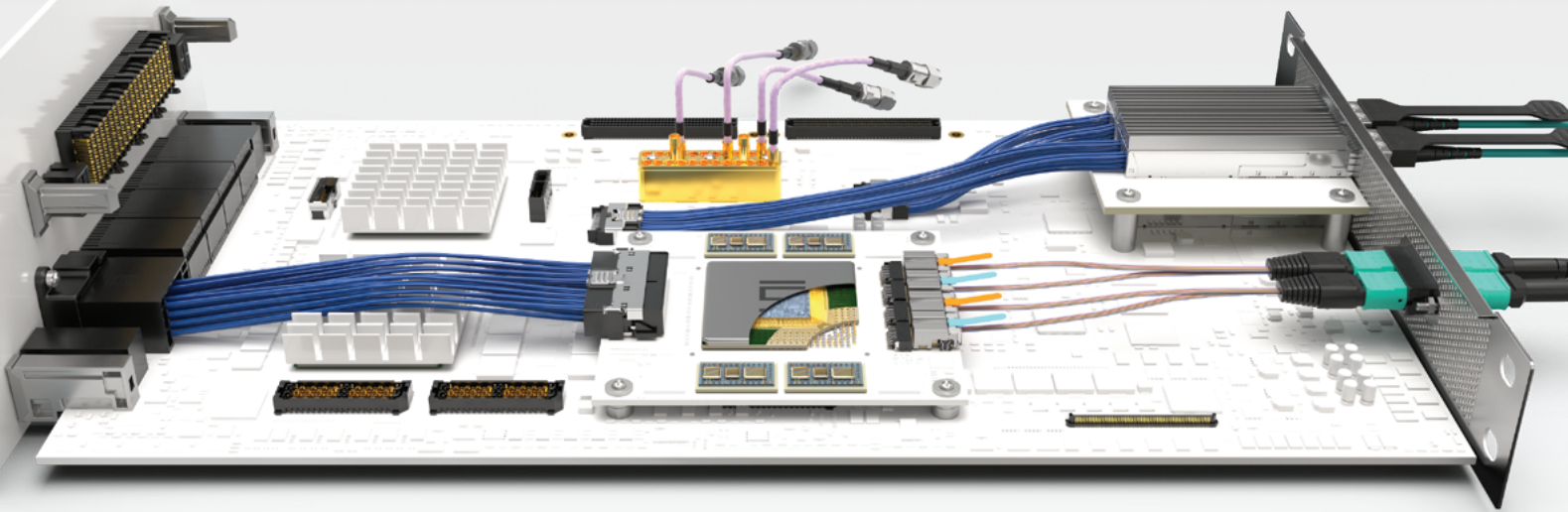


TECHNOLOGY CENTERS

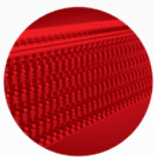
COMPLETE SYSTEM OPTIMIZATION FROM SILICON-TO-SILICON™

Samtec's Technology Centers offer high-level design and development of advanced interconnect systems and technologies, along with industry-leading signal integrity expertise which allows us to provide effective strategies and technical support for optimizing the entire serial channel of high-performance systems.

Because Samtec's Technology Centers are not limited by the boundaries of traditional business units, we are able to work in a fully integrated capacity that enables true collaboration and innovation to support the demands of today, and the challenges of tomorrow.



INTEGRATION LEADS TO INNOVATION



ADVANCED INTERCONNECTS

High precision stamping, plating, molding and automated assembly



HIGH-SPEED CABLE

In-house R&D and manufacturing of precision extruded cable and assemblies



OPTICS

R&D, design, development and support of micro optical engines and assemblies



SYSTEM SIGNAL INTEGRITY

Full channel signal and power integrity analysis, testing and validation services



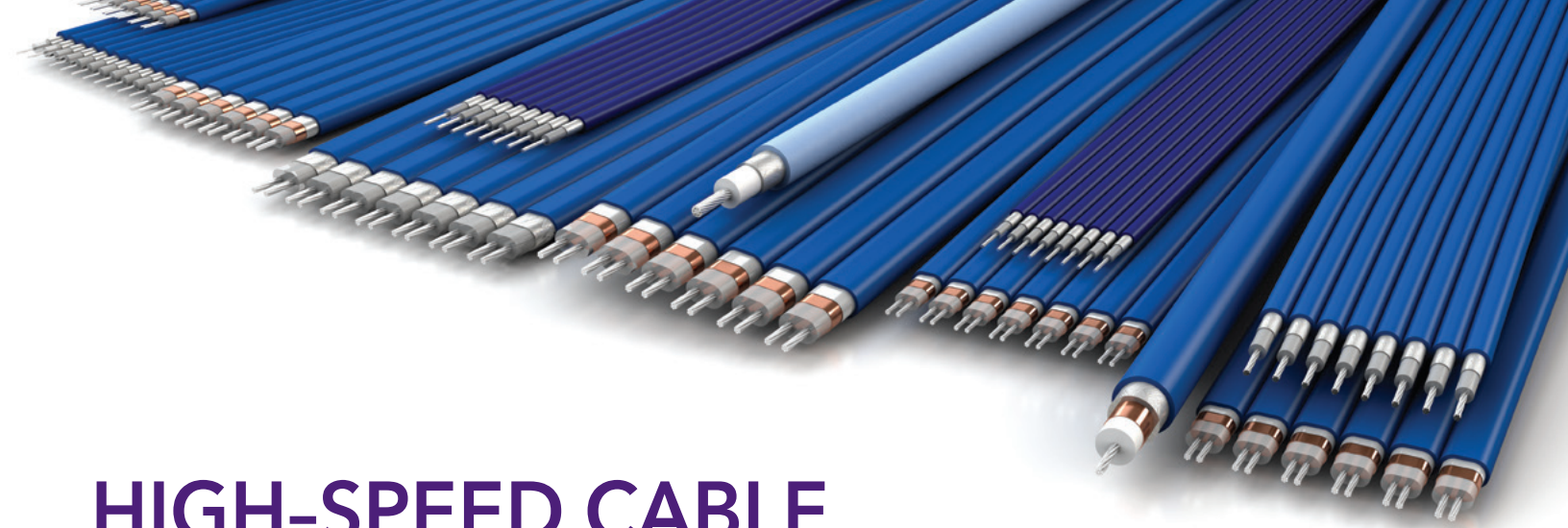
PRECISION RF

RF interconnect design and development expertise, with testing to 65 GHz



MICROELECTRONICS

Advanced IC packaging design, support and manufacturing capabilities



HIGH-SPEED CABLE

NEW CAPABILITIES ENABLE NEW TECHNOLOGY

Samtec's state-of-the-art **High-Speed Cable Plant** is focused on R&D and manufacturing of precision extruded micro coax and twinax cable. Being vertically integrated allows Samtec to offer full system solutions, which creates the ideal combination of design flexibility and customer service to develop truly differentiated products.



Manufacturing Technology & Support

- World-class in-house expertise
- Internally developed proprietary processes
- Extensive customization capabilities
- Procurement and test of new materials
- Quick-turn design and manufacturing
- Shorter, controlled lead times
- Unparalleled pricing and delivery

As one of Samtec's six Technology Centers, the **High-Speed Cable Group** is aggressively pursuing next generation micro coax and twinax products that solve existing and future signal integrity challenges for 112 Gbps and beyond.



Next Generation Innovation

- Real-time closed-loop control to adjust parameters
- Microcellular dielectric extrusion
- Co-extruded, low loss twinax cable
- Extreme density twinax cable
- High frequency microwave coax with phase stability
- Halogen-free materials
- Thermal capabilities

ULTRA LOW SKEW TWINAX

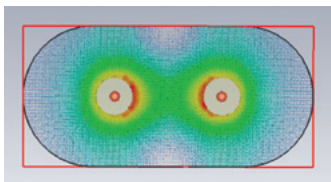
Samtec's proprietary Eye Speed® **co-extruded** twinax cable technology eliminates the performance limitations and inconsistencies of individually extruded dielectric twinax cabling, improving signal integrity, bandwidth and reach for high-performance system architectures.

Ultra Low Skew Twinax

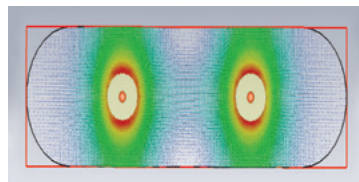
- Tight coupling between signal conductors
- Improved bandwidth (28-112+ Gbps) and reach
- Improved signal integrity and eye pattern opening
- Low skew (< 3.5 ps/meter) over extended lengths
- Supports Samtec Flyover™ technology

Micro Cellular Dielectric Extrusion

- Critical dimensions measured at every dielectric spool
- Inline laser and CAPAC devices for capacitance monitoring and diameter control
- In-process stats summary sheet for Cpk acceptance

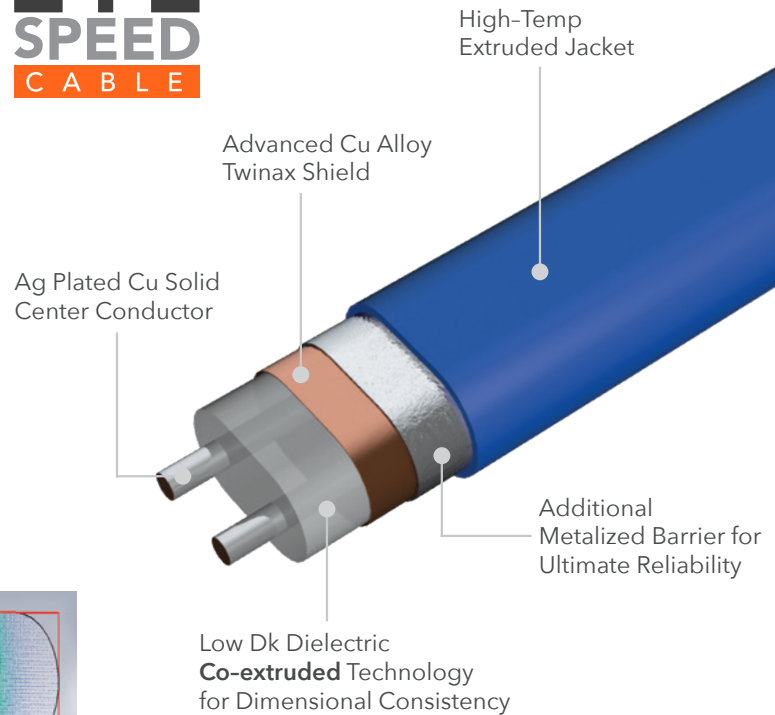


✓ **Good** design coupling with **co-extruded** low skew twinax



✗ **Bad** design coupling with paralleled pair twinax

**EYE
SPEED**
C A B L E



NOMINAL PERFORMANCE SPECIFICATIONS

			28 AWG	30 AWG	32 AWG	34 AWG	36 AWG
Eye Speed® Ultra Low Skew Twinax Cable							
14 GHz (28G NRZ/ 56G PAM4)	0.25 m	IL (dB)	-1.0	-1.2	-1.5	-1.8	-2.2
	1.00 m		-3.9	-4.7	-5.9	-7.2	-8.7
28 GHz (56G NRZ/ 112G PAM4)	0.25 m		-1.5	-1.8	-2.2	-2.6	-3.2
	1.00 m		-6.0	-7.0	-8.7	-10.6	-12.7
Density/Flexibility			Good	Good	Better	Best	Best

Eye Speed® Ultra Low Skew Twinax Cable is available in engineered impedance configurations of 85 Ω, 92 Ω and 100 Ω.

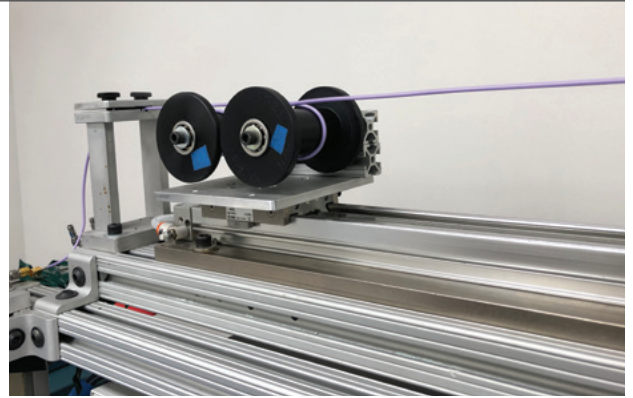
DYNAMIC TESTING

Samtec Eye Speed® Ultra Low Skew Twinax cable underwent Dynamic Insertion and Return Loss testing, proving the cable to be rugged with stable electrical performance after 250 flex/bend cycles.

This arduous flex and bend test determined that the performance of Samtec Eye Speed® ultra low skew twinax is essentially indistinguishable from the original raw, unbent cable.

Ultra low skew twinax provides the lowest insertion loss in the industry, controlled performance across temperature, and robust insertion loss in any assembly and operation environment.

Contact HDR@samtec.com for higher cycle results.



Six feet of ultra low skew twinax cable on mandrels was coiled/uncoiled moving back and forth on a slide at a rate of 20-25 cycles per minute.

CABLE MANAGEMENT

Samtec works with system architects in the early stages to optimize the architecture for cable management while keeping signal integrity and thermals in mind

Complimentary service using mockups with accurate cable lengths

Minimize number of SKUs within one system

Minimize pressure drop



Micro Coax Cable

- Foaming introduces air voids for signal to travel faster
- Solid extrusion of foamed dielectric provides a constant and more durable construction
- Lighter weight and smaller size with higher bandwidth capabilities at longer lengths
- 26 - 38 AWG cable available
- Choice of signal conductor, shield and FEP dielectric to meet performance and cost specifications





samtec

SUDDEN SERVICE®

UNITED STATES • NORTHERN CALIFORNIA • SOUTHERN CALIFORNIA • SOUTH AMERICA • UNITED KINGDOM
GERMANY • FRANCE • ITALY • NORDIC/BALTIC • BENELUX • ISRAEL • INDIA • AUSTRALIA / NEW ZEALAND
SINGAPORE • JAPAN • CHINA • TAIWAN • HONG KONG • KOREA