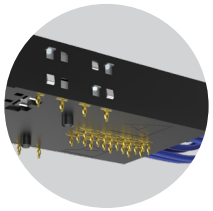
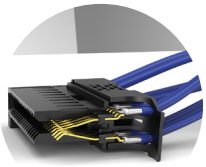
FLYOVER® SFP, QSFP & OSFP PANEL ASSEMBLIES

FEATURES & BENEFITS

Flyover® panel cable systems utilize Samtec Flyover® cable technology to route data above lossy PCB through Eye Speed® ultra low skew twinax cable, 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.

- High-speed contacts directly terminated to Eye Speed® ultra low skew twinax
- Low-speed and power positions transmitted through press-fit contact tails
- Multiple end 2 (co-packaged and near-chip) options for design flexibility
- Cages and heat sinks available for optimized thermal performance
- SI Evaluation Kits available, visit **samtec.com/kits**





FLYOVER® SFP SYSTEM

- 112 Gbps PAM4 performance
- Belly-to-belly capable for maximum density
- Accepts all MSA compliant SFP pluggable modules
- Eye Speed Thinax™ ultra low skew twinax cable (3.5 ps/m max)

FLYOVER® QSFP SYSTEM

- 4 Channels (x4 bidirectional, 8 differential pairs)
- Up to 400 Gbps aggregate (112 Gbps PAM4)
- Compatible with all MSA QSFP pluggables
- Eye Speed® ultra low skew twinax cable (3.5 ps/m max)

FLYOVER® OSFP SYSTEM

- Up to 1600 Gbps aggregate (224 Gbps PAM4)
- 8 Channels (x8 bidirectional, 16 differential pairs)
- Belly-to-belly capable for maximum density
- Eye Speed Thinax™ ultra low skew twinax cable (3.5 ps/m max) or Eye Speed® hyper low skew twinax (1.75 ps/m max)

FLYOVER® QSFP DOUBLE DENSITY

- 8 Channels (x8 bidirectional, 16 differential pairs)
- Up to 800 Gbps aggregate (112 Gbps PAM4)
- PCIe® 6.0/CXL® 3.2 capable
- Belly–to–belly capable for maximum density
- Backward compatible with QSFP and QSFP-DD modules
- Eye Speed® ultra low skew twinax or Eye Speed Thinax™ twinax cable (3.5 ps/m max)

The PCIe® design mark is a registered trademark and/or service mark of PCI-SIG.

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

FLYOVER®

PAM4 112 Gbps | PAM4 224 Gbps

samtec

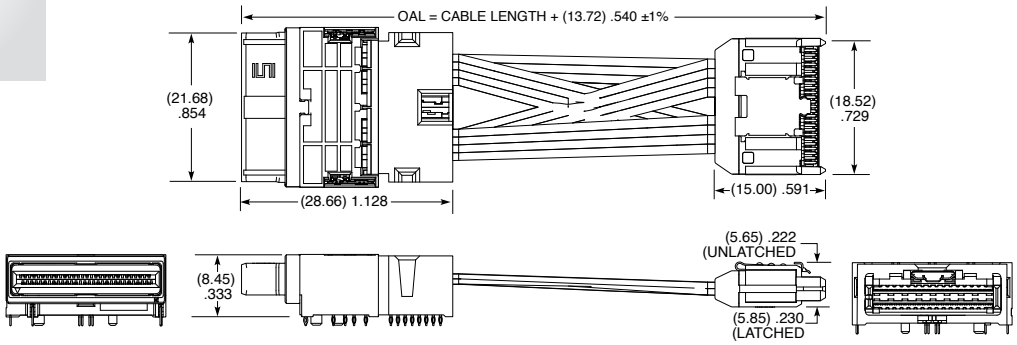
FLYOVER® OSFP CABLE ASSEMBLIES

FOSFP	–	SIGNAL INTEGRITY	–	CABLE TYPE	–	CABLE LENGTH	–	END 2 OPTION
		–1 = Up to 112 Gbps PAM4 per differential pair		**–01** = 34 AWG, 92 Ω Thinax™ ultra low skew twinax cable, 16 pairs		**–"XX.X"** = Length in inches (See chart for minimum)		**–1** = ARC6-16 (AcceleRate®) **–3** = CPC-16 (Si-Fly® LP)

FOSFP-1

Panel Cage:
OSFPC
Heat Sink:
HS-OSFP

END 2 OPTION	CABLE LENGTH (Minimum in Inches)
–1	05.0" (127.0)
–2	05.0" (127.0)
–3	07.0" (177.8)



FOSFP–1–01–XX.X–1 SHOWN

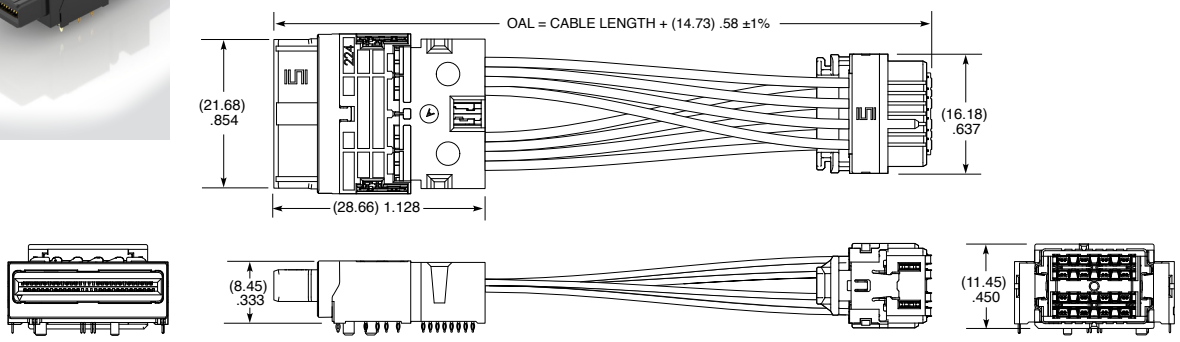
Note:
Some sizes, styles and options are non-standard, non-returnable.

FOSFP	–	SIGNAL INTEGRITY	–	CABLE TYPE	–	CABLE LENGTH	–	END 2 OPTION
		–2 = Up to 224 Gbps PAM4 per differential pair		**–01** = 32 AWG, 92 Ω Thinax™ ultra low skew twinax cable, 16 pairs		**–"XX.X"** = Length in inches 08.0" (203.2 mm) minimum for SFNC end option 10.0" (254 mm) minimum for SFCC end option		**–1** = SFNC Vertical (Si-Fly® HD Near-Chip) **–3** = SFCC Right-Angle (Si-Fly® HD Co-Packaged)

FOSFP-2

Panel Cage:
OSFPC
Heat Sink:
HS-OSFP

PRELIMINARY



FOSFP–2–01–XX.X–1 SHOWN

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F-226 (Rev 14May26)

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