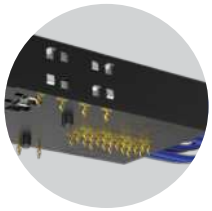
FLYOVER® SFP, QSFP & OSFP PANEL ASSEMBLIES



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® 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 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® 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 56 Gbps

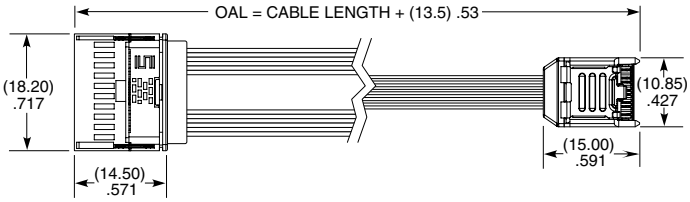
FLYOVER® QSFP CABLE ASSEMBLY

samtec

FQSFP	–	LEAD STYLE	–	CABLE LENGTH	–	PLATING	–	CONTACT TYPE	–	END OPTION
		–01 = 10 Low-Speed, 8 Pairs High-Speed		**–"XX.X"** = Length in inches 04.0" (101.6 mm) minimum		**–L** = 10 µ" (0.25 µm) Gold over 50 µ" (1.27 µm) Ni on contact area, Matte Tin on tail		**–PF** = Press-fit		**–3** = ECUE (FireFly™) **–4** = ARC6-8 (AcceleRate®; 34 AWG, 100 Ω ultra low skew twinax cable) **–5** = ARC6-8 (AcceleRate®; 34 AWG, 92 Ω Thinax™ ultra low skew twinax cable)

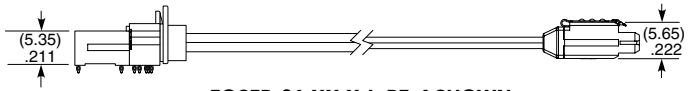
FQSFP





PRESS-FIT TOOLING

CAT-PT-FQSFP-01
For more information, visit www.samtec.com/tooling

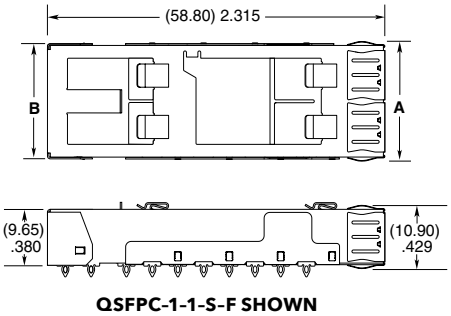


FQSFP-01-XX.X-L-PF-4 SHOWN

QSFPC	–	CAGE OPTION	–	NUMBER OF PORTS	–	EMI PANEL OPTION	–	OPTION	–	FLYOVER®
		–1 = Single Stack		**–1** = One Port **–2** = Two Ports **–4** = Four Ports		**–S** = Spring Fingers		(Leave blank for no Light Pipe) **–LP** = Light Pipe (1 & 4 ports only) **–N** = No heat sink closed top (Not available with –LP)		(Leave blank for no Flyover®) **–F** = Flyover®

QSFPC





QSFPC-1-1-S-F SHOWN

NO. OF PORTS	A	B	C
–1	(20.62) .812	(19.85) .781	(19.00) .748
–2	(39.62) 1.560	(38.85) 1.530	(38.00) 1.496
–4	(77.62) 3.056	(76.85) 3.026	(76.00) 2.992

PRESS-FIT TOOLING

CAT-PT-FQSFP-03–XX
For more information, visit www.samtec.com/tooling

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

HEAT SINKS	
PART NUMBER	HEAT SINK HEIGHT
HS-QSFP-P1-01	(4.20 mm) .165"
HS-QSFP-P1-02	(6.50 mm) .256"
HS-QSFP-P1-03	(13.50 mm) .531"
HS-QSFP-P1-04	(1.50 mm) .059"

For Light Pipe, add -LP to the end of part number.
View complete specifications at samtec.com?HS-QSFP

LIGHT PIPES	
PART NUMBER	NO. OF PORTS
LP-FQSFP-01	1 pipe
LP-FQSFP-02	2 pipes
LP-FQSFP-04	4 pipes

View complete specifications at samtec.com?LP-FQSFP

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