



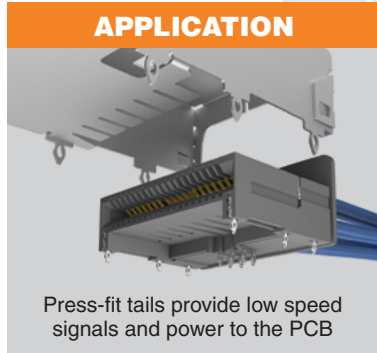
FQSFP SERIES

FLYOVER™ QSFP28 CABLE ASSEMBLY

FEATURES

- 4 Channels (x4 Bidirectional, 8 Differential Pairs)
- 28 Gbps NRZ per channel
- Aggregate: 100 Gbps NRZ (200 Gbps PAM4)
- Compatible with all MSA QSFP pluggables
- Signal integrity is improved and extended by flying critical data over lossy PCB materials
- Reduced PCB costs due to lower layer counts and increased material options
- Heat dissipation (~3.5 W / cable) is improved through power reduction and by freeing designers to place ICs in preferred locations

APPLICATION



Press-fit tails provide low speed signals and power to the PCB

28
Gbps

100 Ω ultra low skew Eye Speed® twinax cable

EYE SPEED
CABLE

Press-fit ground pins

Samtec's direct attach technology improves signal integrity compared to board mounted connectors.

IN DEVELOPMENT

- Other end options

SPECIFICATIONS

For complete specifications see www.samtec.com/FQSFP

Cable:
DCH: 30 AWG twinax cable
ECUE: 34 AWG twinax cable
Signal Routing:
100 Ω Differential
Operating Temp Range:
-25 °C to +105 °C
RoHS Compliant:
Yes

FQSFP	LEAD STYLE	CABLE LENGTH	PLATING	CONTACT TYPE	END OPTION
-01		- "XX.X" = Length in inches 04.0" (101.6 mm) minimum	-L = 10 μm (0.25 μm) Gold over 50 μm (1.27 μm) Ni on contact area, Matte Tin on tail	-PF = Press-fit	-1 = DCH-PF (1 X 8 Pair) -2 = DCH-PF (2 X 4 Pair) -3 = ECUE

OTHER SOLUTIONS

- Cage, heat sinks & light pipes come separately:
QSFP-C-X-X-X-XX-F
HS-QSFP-XX-XX-XX
LP-FQSFP-XX
- Contact FQSFP@samtec.com

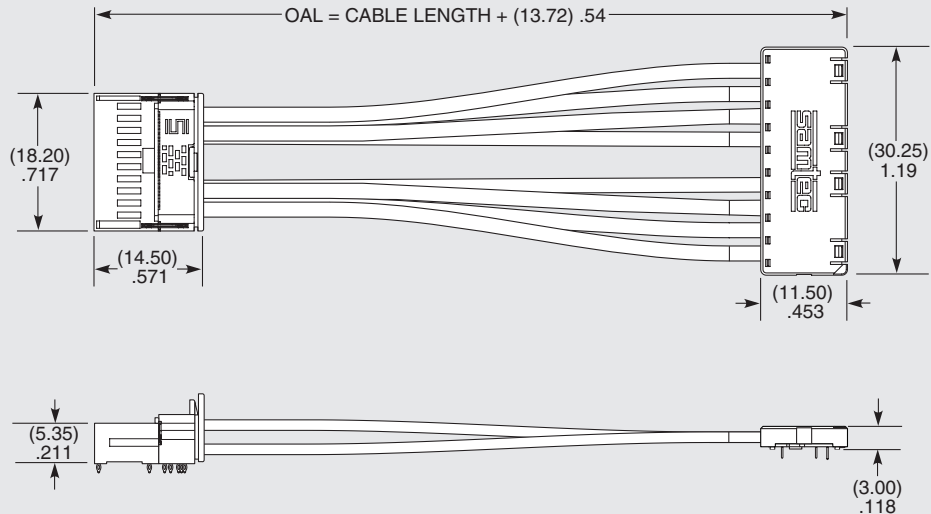
TOOLING

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

Notes:

Patent Pending

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



Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.