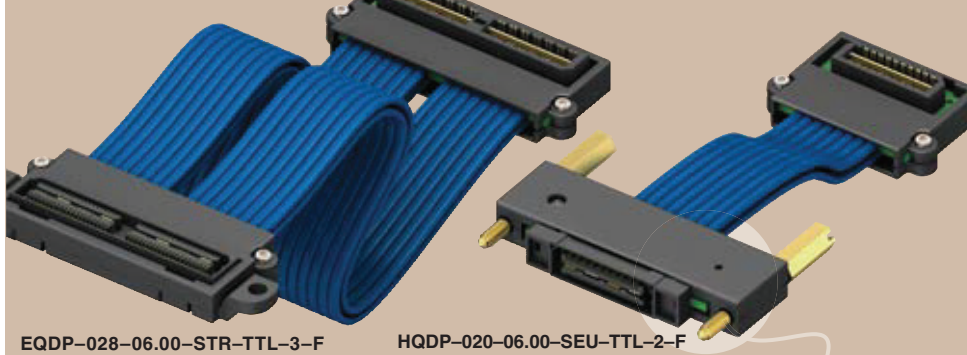




(0,50 mm) .0197"  
(0,80 mm) .0315"

HQDP, EQDP SERIES



# Q PAIRS® TWINAX CABLE ASSEMBLIES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?EQDP](http://www.samtec.com?EQDP) or [www.samtec.com?HQDP](http://www.samtec.com?HQDP)

**Cable:**

30 AWG twinax micro ribbon

**Signal Routing:**

100Ω Differential

**Cable Bending Radius:**

(11,11 mm) 7/16" min

**Plating:**

Au over 50µ" (1,27 µm) Ni

**Current Rating:**

1 A max per contact

**Propagation Delay:**

4.67 nsec/meter

**Operating Temp Range:**

-25°C to +105°C

**Skew (pair-to-pair):**

<10 ps/ft

**Skew (within a pair):**

<5 ps/ft

**EMI Performance:**

FCC Class A

**RoHS Compliant:**

Yes

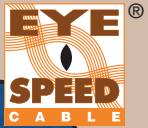
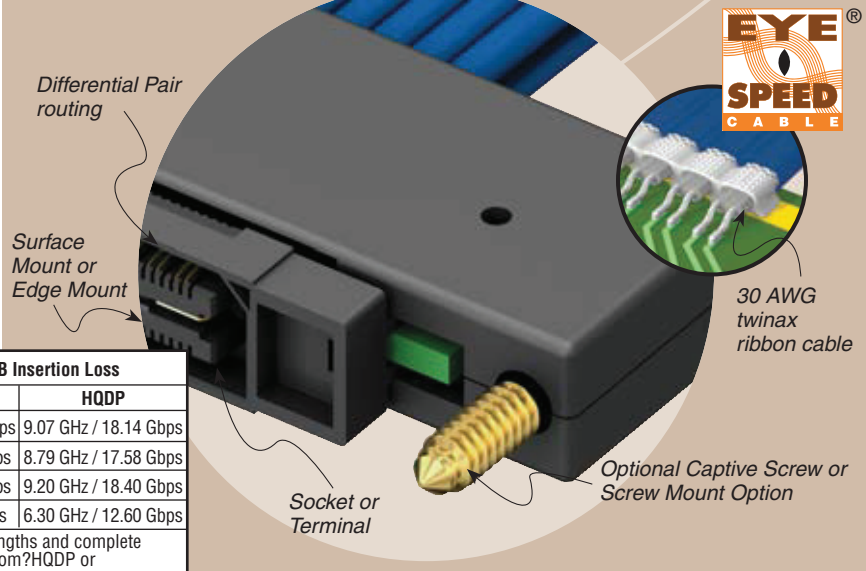


**EQDP Mates with:**  
QTE-DP, QSE-DP

**HQDP Mates with:**  
QTH-DP, QSH-DP

Cable Length	Rated @ 7dB Insertion Loss	
	EQDP	HQDP
6" (152,4 mm)	10.05 GHz / 20.10 Gbps	9.07 GHz / 18.14 Gbps
12" (304,8 mm)	9.96 GHz / 19.92 Gbps	8.79 GHz / 17.58 Gbps
19.68" (0,5 m)	9.95 GHz / 19.90 Gbps	9.20 GHz / 18.40 Gbps
39.37" (1 m)	4.92 GHz / 9.84 Gbps	6.30 GHz / 12.60 Gbps

Performance data for other cable lengths and complete test data available at [www.samtec.com?HQDP](http://www.samtec.com?HQDP) or [www.samtec.com?EQDP](http://www.samtec.com?EQDP) or contact [sig@samtec.com](mailto:sig@samtec.com)



**Protocols Supported**

- SAS
- SATA
- Fibre Channel
- Ethernet
- PCIe®
- InfiniBand™

Download test report at:  
[www.samtec.com?HQDP](http://www.samtec.com?HQDP) or  
[www.samtec.com?EQDP](http://www.samtec.com?EQDP)

TYPE	NO. OF PAIRS	WIRE LENGTH	END NO. 1	END NO. 2	WIRING OPTION	SCREW OPTION
<b>HQDP</b> = (0,50 mm) .0197" pitch	-020, -040, -060, -080 (20 pairs per bank) HQDP Series	- "XX.XX" = Wire Length in Inches (43,7 mm) 01.72" minimum	Specify END ASSEMBLIES from chart		-1 = Pin 1 to Pin 1	Leave blank for no Screw Option
<b>EQDP</b> = (0,80 mm) .0315" pitch	-014, -028, -042, -056 (14 pairs per bank) EQDP Series				-2 = Pin 1 to Pin 2	-F = End No. 1
					-3 = Pin 1 to Second Last Pin	-S = End No. 2
					-4 = Pin 1 to Last Pin	-B = Both Ends

END	SURFACE MOUNT
TTR	Terminal, Top, Notch Right
TTL	Terminal, Top, Notch Left
TBR	Terminal, Bottom, Notch Right
TBL	Terminal, Bottom, Notch Left
STR	Socket, Top, Notch Right
STL	Socket, Top, Notch Left
SBR	Socket, Bottom, Notch Right
SBL	Socket, Bottom, Notch Left

END	EDGE MOUNT
TEU	Terminal, Edge, Notch Up
TED	Terminal, Edge, Notch Down
SEU	Socket, Edge, Notch Up
SED	Socket, Edge, Notch Down

WIRING REQUIREMENTS	
WIRING OPTION	END OPTIONS
1 or 2	TTR, TBL, STL, SBR, TEU, SED to TTR, TBL, STL, SBR, TED, SEU or TTL, TBR, STR, SBL, TED, SEU to TTL, TBR, STR, SBL, TEU, SED
3 or 4	TTR, TBL, STL, SBR, TEU, SED to TTL, TBR, STR, SBL, TEU, SED or TTL, TBR, STR, SBL, TED, SEU to TTR, TBL, STL, SBR, TED, SEU

**Note:** Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

**Note:** Verify part number with Samtec's Interactive Cable Builder at [www.samtec.com/cable\\_builder/pitch.aspx](http://www.samtec.com/cable_builder/pitch.aspx)

**Note:** This Series is non-standard, non-returnable.

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)