



(0.50 mm) .0197" (HQDP) (0.80 mm) .0315" (EQDP)

EQDP-028-06.00-STR-TTL-3-F

HQDP, EQDP SERIES

# Q PAIRS® TWINAX CABLE ASSEMBLIES

## SPECIFICATIONS

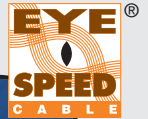
For complete specifications see [www.samtec.com?EQDP](http://www.samtec.com?EQDP) or [www.samtec.com?HQDP](http://www.samtec.com?HQDP)

- Cable:** 30 AWG twinax micro ribbon
- Signal Routing:** 100Ω Differential
- Cable Bending Radius:** (3.18 mm) 1/8" min
- Plating:** Au over 50 μ" (1.27 μm) Ni
- Current Rating:** EQDP = 500 mA per pin HQDP = 800 mA per pin (6 adjacent pins powered)
- 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

**Note:** Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.  
**Note:** Design your High Speed Cable with Samtec's High Speed Cable Solutionator® at [www.samtec.com/hdr](http://www.samtec.com/hdr)

Differential Pair routing  
Surface Mount or Edge Mount



30 AWG twinax ribbon cable

Socket or Terminal  
Optional Captive Screw or Screw Mount Option

Cable Length	Rated @ 7dB Insertion Loss	
	EQDP	HQDP
10" (0.25 m)	10.00 GHz / 20.00 Gbps	9.50 GHz / 19.00 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)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## ALSO AVAILABLE (MOV Required)

- Pairs
  - Terminations
- Contact Samtec.

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 (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  -2 = Pin 1 to Pin 2  -3 = Pin 1 to Second Last Pin  -4 = Pin 1 to Last Pin	Leave blank for no Screw Option  -F = End No. 1  -S = End No. 2  -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

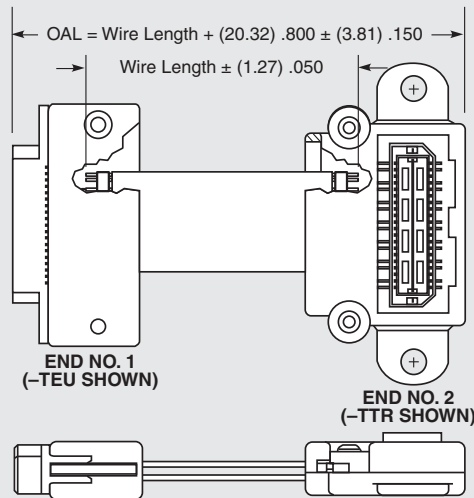
END	EDGE MOUNT (HQDP only)
TEU	Terminal, Edge, Notch Up
TED	Terminal, Edge, Notch Down
SEU	Socket, Edge, Notch Up
SED	Socket, Edge, Notch Down

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

**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)



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

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