



HQDP-020-06.00-SEU-TTR-6-F

EQDP-028-06.00-STR-TTL-7-F

HQDP, EQDP SERIES

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

Q PAIRS® TWINAX CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?EQDP or www.samtec.com?HQDP

- Cable:** 30 AWG twinax micro ribbon
- Signal Routing:** 100 Ω 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 = 400 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

Differential Pair routing
Surface Mount or Edge Mount

EYE SPEED CABLE

30 AWG twinax ribbon cable

HIGH-SPEED CHANNEL PERFORMANCE

HQDP or EQDP

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

14
Gbps

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



PROTOCOLS

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

ALSO AVAILABLE (MOV Required)

- Pairs
 - Terminations
- Contact Samtec.

Notes:
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.
Design your High-Speed Cable with Samtec's High-Speed Cable Solutionator® at www.samtec.com/hdr
This Series is non-standard, non-returnable.

TYPE	NO. OF PAIRS	WIRE LENGTH	END NO. 1	END NO. 2	WIRING OPTION	SCREW OPTION
<p>HQDP = (0.50 mm) .0197" pitch</p> <p>EQDP = (0.80 mm) .0315" pitch</p>	<p>-020, -040, -060 (20 pairs per bank) HQDP Series</p> <p>-014, -028, -042, -056 (14 pairs per bank) EQDP Series</p>	<p>- "XX.XX" = Wire Length in Inches (43.7 mm) 01.72" minimum</p>	Specify END ASSEMBLIES from chart		<p>-5 = Pin 1 to Pin 1</p> <p>-6 = Pin 1 to Pin 2</p> <p>-7 = Pin 1 to Second Last Pin</p> <p>-8 = Pin 1 to Last Pin</p>	<p>Leave blank for no Screw Option</p> <p>-F = End No. 1</p> <p>-S = End No. 2</p> <p>-B = Both Ends</p>

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
5 or 6	TTR, TBL, STL, SBR, TEU, SED to TTR, TBL, STL, SBR, TED, SEU or TTL, TBR, STR, SBL, TEU, SED
	TTR, TBL, STL, SBR, TEU, SED to TTL, TBR, STR, SBL, TEU, SED or TTR, TBL, STR, SBL, TED, SEU to TTR, TBL, STL, SBR, TED, SEU
7 or 8	TTR, TBL, STL, SBR, TEU, SED to TTR, TBL, STL, SBR, TED, SEU or TTR, TBL, STR, SBL, TED, SEU to TTR, TBL, STL, SBR, TED, SEU
	TTR, TBL, STL, SBR, TEU, SED to TTR, TBL, STL, SBR, TED, SEU or TTR, TBL, STR, SBL, TED, SEU to TTR, TBL, STL, SBR, TED, SEU

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