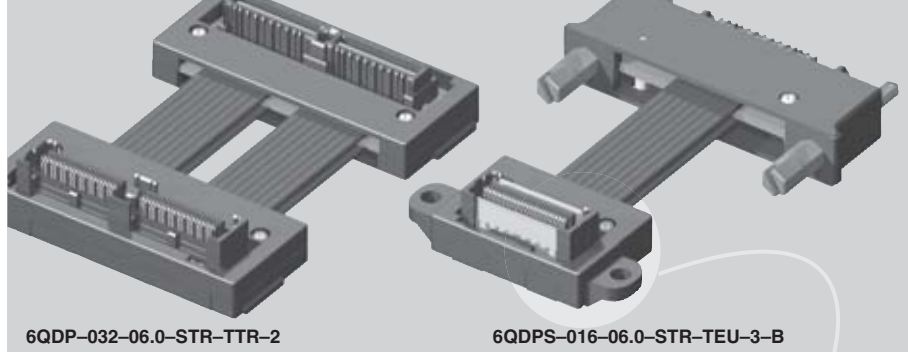




(0,635mm) .025"

6QDPS, 6QDP SERIES



# HIGH SPEED TWINAX CABLE ASSEMBLIES

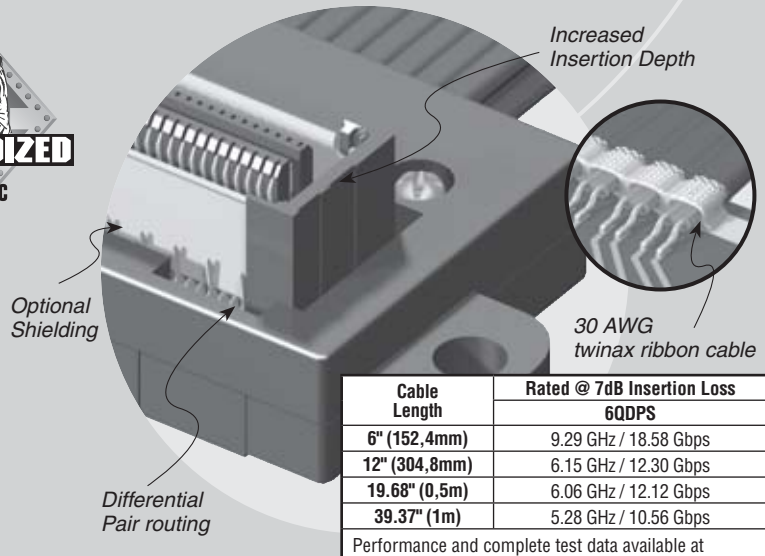
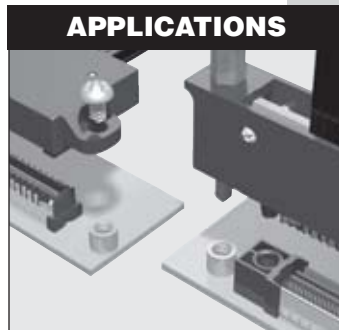
## SPECIFICATIONS

For complete specifications see [www.samtec.com?6QDPS](http://www.samtec.com?6QDPS) or [www.samtec.com?6QDP](http://www.samtec.com?6QDP)

- Cable:** 30 AWG twinax micro ribbon
- Signal Routing:** 100Ω Differential
- Cable Bending Radius:** (11,11mm) 7/16" min
- Plating:** Au over 50μ" (1,27μm) Ni
- Current Rating:** 1 A max
- Propagation Delay:** 4.67 nsec/meter
- Operating Temp Range:** -40°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



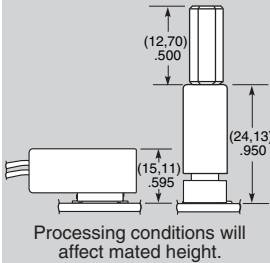
Mates with:  
QMSS-DP, QFSS-DP,  
QMS-DP, QFS-DP



Cable Length	Rated @ 7dB Insertion Loss
	6QDPS
6" (152,4mm)	9.29 GHz / 18.58 Gbps
12" (304,8mm)	6.15 GHz / 12.30 Gbps
19.68" (0,5m)	6.06 GHz / 12.12 Gbps
39.37" (1m)	5.28 GHz / 10.56 Gbps

Performance and complete test data available at [www.samtec.com?6QDPS](http://www.samtec.com?6QDPS) or contact [sig@samtec.com](mailto:sig@samtec.com)

## APPLICATIONS



END TO END	L
Surface Mount to Surface Mount	(23,88) .940
Surface Mount to Edge Mount (Terminal)	(21,08) .830
Surface Mount to Edge Mount (Socket)	(20,35) .801
Edge Mount (Terminal) to Edge Mount (Terminal)	(18,29) .720
Edge Mount (Terminal) to Edge Mount (Socket)	(17,55) .691
Edge Mount (Socket) to Edge Mount (Socket)	(16,81) .662

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

**Note:** Verify part number and correct wiring scheme 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.

## TYPE

- 6QDPS**  
= Shielded mates with QMSS-DP/QFSS-DP
- 6QDP**  
= Unshielded mates with QMS-DP/QFS-DP

## NO. OF PAIRS

- 016,
- 032,
- 048,
- 064

## WIRE LENGTH

- "XX.X"  
= Wire Length in Inches (95,3mm) 03.8" minimum

## END NO. 1

Specify END ASSEMBLIES from chart

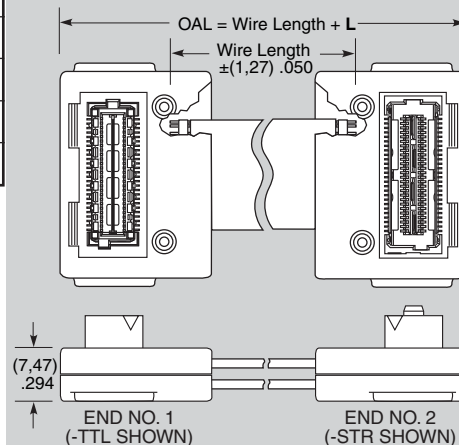
## END NO. 2

## WIRING OPTION

- 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

## SCREW OPTION

- Leave blank for no Screw Option
- F = End No. 1
- S = End No. 2
- B = Both Ends



SURFACE MOUNT		
ASSEMBLY	END 1	END 2
-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		

EDGE MOUNT		
ASSEMBLY	END 1	END 2
-TEU = Terminal, Edge, Notch Up		
-TED = Terminal, Edge, Notch Down		

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

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

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