

# PCI EXPRESS® JUMPERS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?PCIEC](http://www.samtec.com?PCIEC)

## CABLE ASSEMBLY

**Cable:**  
Eye Speed® 30 AWG twinax or  
Eye Speed® 32 AWG twinax;  
30 AWG insulated ribbon  
**Operating Temp:**  
-25 °C to +105 °C  
**Contact:**  
Phosphor Bronze  
**Plating:**  
Au or Sn over 50 μ" Ni  
**Performance:**  
Supports PCIe® Gen 1 & 2  
**Bend Radius:**  
(3.18 mm) .125"  
**-EM Connector:**  
Black Nylon  
**Card Insertion Depth:**  
(8.00 mm) .315"  
**RoHS Compliant:**  
Yes

Mates with:  
PCIE, PCIE-LP

## HIGH-SPEED CHANNEL PERFORMANCE

### PCIEC

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

14  
Gbps

## APPLICATIONS

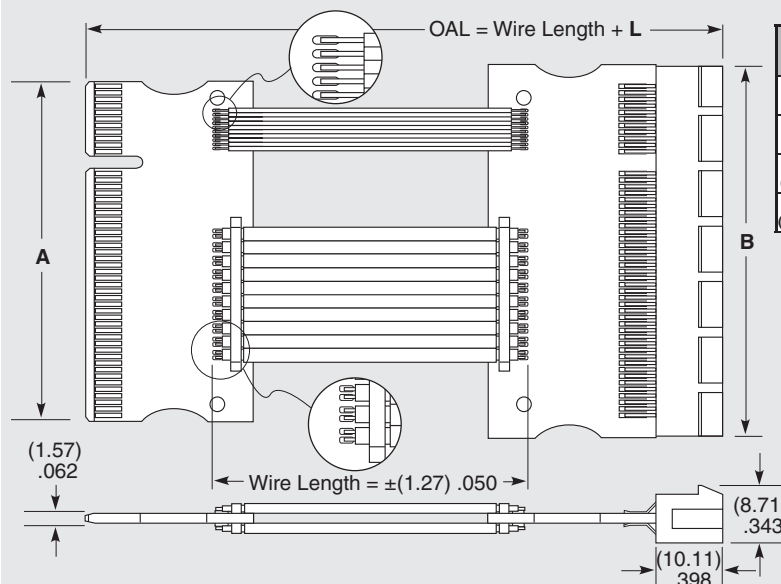
Loop back Extender (From one PCIe® slot to another PCIe® slot)  
Ser-Des Physical Extender (From one PCIe® slot to another PCIe® Ser-Des)  
Physical Extender for easy troubleshooting of PCIe® card debug and analysis  
(PCIe® slot to Emulator or Analyzer)

30 AWG insulated  
ribbon cable

Supports one,  
four, eight and  
sixteen PCI  
Express® links

30 or 32 AWG  
twinax ribbon cable

PCIEC	NO. OF POSITIONS	WIRE LENGTH	END NO. 1	END NO. 2	CABLE OPTION	IMPEDANCE
	-036 (x1), -064 (x4), -098 (x8), -164 (x16)	"XXXX" = Wire Length in millimeters 0050 mm minimum	-EC = Edge Card	-EC = PCIe® Edge Card -EM = PCIe® Edge Mount Connector	Specify CABLE OPTION from chart	Leave blank for 100 Ω  -85 = 85 Ω



CABLE OPTION	IMPEDANCE	
	85 Ω	100 Ω
BLANK	32 AWG TAPED SHIELD	NOT AVAILABLE*
-C (No Power Lines)	NOT TOOLED*	30 AWG TAPED SHIELD
-CP (With Power Lines)	NOT TOOLED*	30 AWG TAPED SHIELD
-P (With Power Lines)	32 AWG TAPED SHIELD	NOT AVAILABLE*

\* Contact [hdr@samtec.com](mailto:hdr@samtec.com) for information

END TO END	L
-EC to -EC	(39.6) 1.56
-EC to -EM	(49.6) 1.95

NO. OF POSITIONS	A	B
-036 (x1)	(20.30) .800	(25.40) 1.00
-064 (x4)	(34.30) 1.35	(39.40) 1.55
-098 (x8)	(51.30) 2.02	(56.40) 2.22
-164 (x16)	(84.30) 3.32	(89.40) 3.52

**Notes:**  
PCI-SIG®, PCI Express® and  
the PCIe® design marks are  
registered trademarks and/or  
service marks of PCI-SIG.

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

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)

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.