



PCI EXPRESS® JUMPERS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?PCIEC

CABLE ASSEMBLY

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

Mates with:
PCIE, PCIE-LP

30 AWG ribbon cable

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

HIGH-SPEED CHANNEL PERFORMANCE

PCIEC

Rating based on Samtec reference channel.
For full SI performance data visit Samtec.com or contact 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 shielded 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 | Leave blank for 32 AWG Eye Speed® Cable and no Power Lines (85 Ω only) -C 30 AWG Eye Speed® Cable and no Power Lines (100 Ω only) -CP 30 AWG Eye Speed® Cable and Power Lines (100 Ω only) -P 32 AWG Eye Speed® Cable and Power Lines (85 Ω only) | Leave blank for 100 Ω -85 = 85 Ω |

OAL = Wire Length + L

Wire Length = ±(1.27) .050

(1.57) .062

(8.71) .343

(10.11) .398

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

| NO. OF POS. | 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) | (64.30) 3.32 | (69.40) 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

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.