

Lynx™

LOW PROFILE 4 ROW CONNECTOR OFFERING DOUBLE THE DENSITY IN A 2 ROW FOOTPRINT

Amphenol's Lynx™ low profile connectors have a narrow footprint which is suitable for a wide variety of applications in datacom systems, enterprise servers, telecommunications, equipment, medical and test.

Design applications include:

- Low profile board designs
- Board-to-board applications requiring high density, high speed, differential, single ended signaling and/or power
- Micro cable interface for flexible circuit or micro coax assemblies

- 85Ω differential performance
- 25 Gb/s (4–7mm height); 12 Gb/s (8–10mm height)
- Mix and match differential, single-ended, and power in the same module
- 1 Amp per contact power density on tight pitch
- Robust J-Lead SMT contact design tolerant of misalignment



TARGET MARKETS



FEATURES

- 25 Gb/s capable, height dependent
- 40, 80, 120, 160, 200, and 240 pin counts
- 4mm – 10mm mated stack heights
- Pin field flexibility
- 0.6mm pitch contacts in 4 rows
- Built-in alignment features

BENEFITS

- High bandwidth and excellent signal integrity in a small footprint
- Density options for Single Ended or Differential signaling
- Flexibility for low profile designs
- Differential pair, single ended or power with user defined pin out capability
- Very compact footprint with an effective 0.3mm pitch when compared to standard 2 row connectors
- Enables blind mating

TECHNICAL INFORMATION

MATERIAL

- Contact: High Performance Copper Alloy
- Housing: High Temperature Reinforced Polyester (Liquid crystal polymer)

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 500 Volts RMS
- Insulation Resistance: 1000 Megaohms Min
- Contact Current Rating: 0.5 Amps Max
- Contact Resistance: 10mΩ Max
- Crosstalk Reflection: <5%

MECHANICAL PERFORMANCE

- Contact Normal Force: 0.25N End of Life
- Contact Engagement Force: 0.26N maximum per contact
- Contact Separation Force: 0.13N maximum per contact
- Contact Wipe Length: 0.5mm

SPECIFICATIONS

- TB-2312 General Product Specification
- TB-2313 Application Specification

PACKAGING

- Tape and Reel

ENVIRONMENTAL

- Operating Temperature: -55°C to 105°C
- Flammability Rating: 94V-0
- RoHS compliant
- Lead-free solder

TARGET MARKETS/APPLICATIONS



Switches
Routers
Telecom
Datacom



Rack Mount Server
Blade Server
Storage Server
Datacenter



Car Multimedia
Car Navigation Systems



Instrumentation and Medical



Medical Instrument
Imaging
Monitoring

AVAILABILITY

Plug	10POS	15POS	20POS	30POS	40POS	50POS	60POS	70POS
4mm	✓		✓	✓	✓	✓	✓	✓
5mm	✓		✓	✓	✓	✓	✓	✓
6mm	✓		✓	✓	✓	✓	✓	✓
7mm	✓		✓	✓	✓	✓	✓	✓
8mm	✓	✓	✓	✓	✓	✓	✓	✓
10mm	✓	✓	✓	✓	✓	✓	✓	✓

Receptacle	10POS	15POS	20POS	30POS	40POS	50POS	60POS	70POS
3mm	✓	✓	✓	✓	✓	✓	✓	✓