

TECHNICAL INFORMATION

MATERIAL

- Contact Base Metal: Copper alloy
- Contact Area Finish: Gold over nickel
- Solder Area Finish: Tin over nickel or tin-lead over Nickel
- Metal Board Locks: Copper alloy
- Board Locks Finish: Tin over nickel or tin-lead over nickel
- Housing: High-temperature thermoplastic

ELECTRICAL PERFORMANCE

- Contact Resistance:
 - Initial: 30mΩ max.
 - Finish: Delta 20mΩ max.
- Current Rating: 1.1A for 8 specified power contacts and 8 nearest ground contacts
- Voltage Rating: 50V AC (rms)

MECHANICAL PERFORMANCE

- Durability: 50 mating cycles
- Insertion Force: 1.15N (0.117Kgf) max. per contact pair
- Withdrawal Force: 0.15N (0.015Kgf) min. per contact pair
- Contact Retention Force: 0.5Kgf min. per pin

ENVIRONMENTAL

- Salt Spray: Contact Resistance 20Ω max. final)
- Thermal Shock: Contact Resistance (20Ω max. final)
- Solderability: 90% of immersed area must show no voids and pin holes

APPROVALS AND CERTIFICATIONS

- UL
- CSA

SPECIFICATIONS

- Amphenol Product Specification:
 - GS-12-1193 PCI Express® 3.0 Straddle Mount Connectors Product Specification
 - GS-12-233 PCI Express® Connector Product Specification
 - GS-12-319 PCI Express® Press-Fit Connector Product Specification
 - CS-12-288 PCI Express® Retention Mechanism Product Specification
 - GS-12-390 PCI Express® Surface-Mount Connector Product Specification
- Industry Specification:
 - PCI Express Card Electromechanical Specification
 - PCI Express® Module Electromechanical Specification
 - For more information on the applicable PCI-SIG specification, visit www.pcisig.com

PACKAGING

- Tray

TOOLING INFORMATION

- Tooled Up

TARGET MARKETS/APPLICATIONS



Desktop PC
Server
Workstation

PART NUMBERS

Description	Data Rate	Orientation	Termination	Position	Part Numbers
PCIe Gen 3	8GT/s	Vertical	SMT	36, 64, 98,164pos	10061913*
PCIe Gen 3	8GT/s	Vertical	SMT	230pos	10124870*
PCIe Gen 3	8GT/s	Vertical	SMT	280pos	10138069*
PCIe Gen 3	8GT/s	Vertical	TH	36, 64, 98,164pos	10108777*
PCIe Gen 3	8GT/s	Vertical	TH	200pos	10054652*
PCIe Gen 3	8GT/s	Vertical	TH	230pos	10132403*
PCIe Gen 3	8GT/s	Vertical	TH	280pos	10027747*
PCIe Gen 3	8GT/s	Vertical	Straddle Mount	36, 64, 98,164pos	10125756*
PCIe Gen 3	8GT/s	Vertical	PF	36, 64, 98,164pos	10082378*
PCIe Gen 3	8GT/s	Right Angle	SMT	98, 164pos	G630HXXX8XXEXHR
PCIe Gen 3	8GT/s	Right Angle	TH	98pos	G630H98X4210HR

* denotes base part number. Please contact Amphenol ICC for complete part numbers

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[10018783-10003TLF](#) [10018783-10112TLF](#) [10018783-10111TLF](#) [10018783-10102TLF](#) [10018783-10113TLF](#)
[10018783-10110TLF](#) [10018783-10103TLF](#) [10018783-10101TLF](#) [10018783-10100TLF](#) [10039755-10313T](#) [10039755-](#)
[10103TLF](#) [10018783-00101TLF](#) [10018783-00200TLF](#) [10018783-02201TLF](#) [10018783-10000MLF](#) [10018783-](#)
[10000TLF](#) [10018783-10001MLF](#) [10018783-10001TLF](#) [10018783-10002MLF](#) [10018783-10002TLF](#) [10018783-](#)
[10010TLF](#) [10018783-10011TLF](#) [10018783-10012TLF](#) [10018783-10013TLF](#) [10018783-10100MLF](#) [10018783-](#)
[10101MLF](#) [10018783-10120TLF](#) [10018783-10122TLF](#) [10018783-10200MLF](#) [10018783-10200TLF](#) [10018783-](#)
[10201MLF](#) [10018783-10201TLF](#) [10018783-10202TLF](#) [10018783-10210TLF](#) [10018783-10211TLF](#) [10018783-](#)
[10212TLF](#) [10018783-10213TLF](#) [10018783-11000TLF](#) [10018783-11001TLF](#) [10018783-11002TLF](#) [10018783-](#)
[11003TLF](#) [10018783-11010TLF](#) [10018783-11011TLF](#) [10018783-11012TLF](#) [10018783-11013TLF](#) [10018783-](#)
[11100TLF](#) [10018783-11101TLF](#) [10018783-11102TLF](#) [10018783-11103TLF](#) [10018783-11110TLF](#) [10018783-](#)
[11111TLF](#) [10018783-11112TLF](#) [10018783-11113TLF](#) [10018783-11200MLF](#) [10018783-11200TLF](#) [10018783-](#)
[11201TLF](#) [10018783-11202TLF](#) [10018783-11203TLF](#) [10018783-11210TLF](#) [10018783-11211TLF](#) [10018783-](#)
[11212TLF](#) [10018783-11213MLF](#) [10018783-11213TLF](#) [10018783-12000TLF](#) [10018783-12003TLF](#) [10018783-](#)
[12012TLF](#) [10018783-12100TLF](#) [10018783-12120TLF](#) [10018783-12201TLF](#) [10025026-10000TLF](#) [10025026-](#)
[10001TLF](#) [10025026-10002TLF](#) [10025026-10100TLF](#) [10025026-10101TLF](#) [10025026-10102TLF](#) [10025026-](#)
[10103TLF](#) [10025026-10200TLF](#) [10025026-10201TLF](#) [10025026-10203TLF](#) [10027747-11010TLF](#) [10027747-](#)
[11110TLF](#) [10027747-11210TLF](#) [10036767-10200TLF](#) [10037901-11010TLF](#) [10037901-11100TLF](#) [10037901-](#)
[11110TLF](#) [10037901-11210TLF](#) [10039755-10000TLF](#) [10039755-10001TLF](#) [10039755-10002TLF](#) [10039755-](#)
[10003TLF](#) [10039755-10010TLF](#) [10039755-10011TLF](#) [10039755-10013TLF](#) [10039755-10100TLF](#) [10039755-](#)
[10101TLF](#) [10039755-10102TLF](#) [10039755-10110TLF](#) [10039755-10111TLF](#) [10039755-10112TLF](#)