



MICRO-FIT+ CONNECTOR SYSTEM

ADDING: PCIe 12V-2x6 Auxiliary Connector System — a CEM (card electromechanical) hybrid solution supporting next-gen PCIe 5.0 and 6.0 applications. This connector and cable offering conforms to CEM specifications, integrating 12x9.5A-capable power pins and 4x sideband signal pins in a compact, space-saving design. This newest product family enhancement is 675W add-in card ready; engineered to dependably handle high power for advanced computing and data processing applications.

NPI ENHANCEMENT

MARCH 2024

creating connections for life

molex

MICRO-FIT+ CONNECTOR SYSTEM

The Micro-Fit+ Connector System offers high current capability for space-constrained applications, with a variety of configurations and a 40% reduced mating force for enhanced ergonomics and assembly efficiency. Our Micro-Fit+ PCIe Connectors offer full PCIe CEM specification compliance in a compact, space-saving design with hybrid power and signal integration.

Key Product Information

Category: Wire-to-Board Connectors

Voltage Rating: 600V AC/DC

Current Rating: 9.5A (Power)/1.0A (Signal)

Dielectric Withstanding Voltage: 1500V AC

Temperature Rise: 30°C max



[View Product
Landing Page](#)

[Download Datasheet](#)

New Series

| | |
|--------|--|
| 219116 | 16-Circuit: 12 Power, 4 Signal Header |
| 219114 | 16-Circuit: 12 Power, 4 Signal Receptacle |
| 220226 | 16 AWG Power Terminal |
| 219197 | 28 AWG Signal Terminal |

VITAL PRODUCT INFORMATION



Advanced Computing with Fast Data Processing

The Micro-Fit+ PCIe 12V-2x6 Connector System features a compact, hybrid power and signal design that supports 9.5A per pin across 12 energized power pins and signal transmission across 4 sideband pins. Fully isolated cavities protect terminals from damage while facilitating enhanced performance — further supported by high-performance materials such as high-current copper alloy, low halogen, liquid crystal polymer, tin plating and phosphorous bronze.

Space-Saving, High-Performance

Hybrid Micro-Fit+ PCIe 12V-2x6 Connectors are mechanically keyed to comply with next-gen CEM 5.0/6.0 base specification requirements, so they are not intended to mate with legacy 2x3 and 2x4 PCIe connectors. Compact Micro-Fit+ PCIe Connectors have a low pitch that helps reduce footprint when compared to these legacy designs.

Robust, Long-Term Reliability

Proven contact systems with 4 independent contact points on each power pin offer redundant, secondary current paths for long-term efficiency and reliability. Make first, break last (MFBL) mating sequence between power and signal pins mitigates arcing risk. The lead-free, low halogen, RoHS-compliant design aligns with key health, safety and environmental regulations.

APPLICATIONS



Appliances

Consumer

- Copiers
- Freezers
- Pinball and slot machines
- 3D printers
- Refrigerators
- Vending machines
- Video poker and pachinko equipment
- Washing machines



Diagnostic Equipment

Medical

- Diagnostic equipment
- Patient monitors



High-Speed Compute and Routers

Telecommunications/ Networking

- Routers and switches
- Servers
- High-speed compute and storage systems
- Graphics and gaming systems
- Internet of Things (IoT)
- Data centers
- High-performance computing equipment
- Artificial intelligence/machine learning systems
- Virtual reality

MARKETS AND APPLICATIONS



Telematics

Automotive

- Telematics
- Non-critical applications



Solar Power

Sustainable Energy

- Solar power

PRODUCT ADVANTAGES AND FEATURES

Supports ampere interrupting capacities (AICs) up to 675W

with 9.5A per pin; hybrid 12-power + 4-signal pin design utilizes high-current alloy for power pins

Resists potential damage during operation

because of fully isolated terminals

Ensures secure mating and retention for dependable performance and safety

due to positive locking on the housing and low thumb latch operation

Complies with industry standards

due to conformance with PCIe CEM 5.0/6.0 specifications and Molex-engineered reliability

Secures terminals in the housing for added reliability

due to strong retention force

Aligns with key safety, health and environmental regulations

due to the lead-free and RoHS-compliant design

Prevents accidental mis-mating

because of fully polarized housing





THANK YOU

creating connections for life

molex