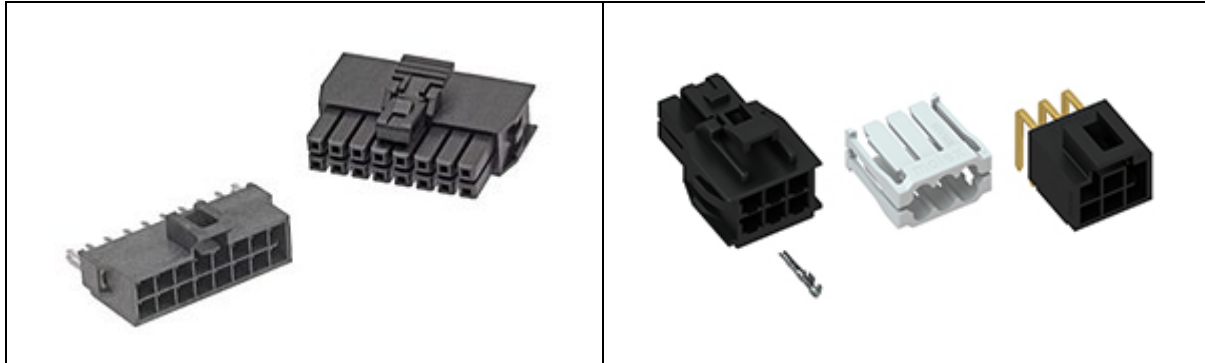


Nano-Fit Power Connectors

Nano-Fit Power Connectors deliver both fully protected header terminals and a small package, while also offering keying options to ensure proper mating and terminal position assurance (TPA) to reduce terminal back-out



Nano-Fit Power Connectors – Molex

Power-application customers are faced with choosing between headers with exposed terminals that leave connectors susceptible to damage and large, fully isolated headers that take up too much space. Compact Nano-Fit Power Connectors provide design engineers with fully protected header terminals in a small package.

When design engineers use multiple headers with the same circuit size on one PCB, assembly becomes complicated due to possible mis-mating of a receptacle with the wrong header. Nano-Fit Power Connectors offer different mechanical keying options, enabling customers to reduce the risk of cross-mating while improving assembly speed with color-coding logic.

Features and Benefits

The smallest, fully-isolated headers in the market

Deliver up to 69% PCB space savings

Optional TPA (Terminal Position Assurance) retainer

Ensures terminals are fully seated in the housing to reduce terminal back-out
Retains terminals if main retention feature fails

Positive-lock housing with anti-snag design

Ensures mated connector assemblies will not accidentally disengage
Provides an audible click while mating
Protects latch from damage due to wire snags

Terminal interface with four points of contact

Offers redundant, secondary current paths for long-term performance and reliability

SMT version enables use of multi-layer boards by eliminating the need for through holes

Opens up real estate on space-constricted PCBs
Potentially reduces costs by enabling use of smaller PCBs with fewer drilled holes

Terminals and headers available in gold and tin plating

Delivers different cost options while meeting performance need

Multiple mechanical keying and color-coded options

Allow same-circuit, multiple-connector use with virtually no chance of cross mating
Color coding provides visual indication of the proper mating connector — enabling faster assembly

Ultra-low mate force terminal

Reduces operator fatigue and improves assembly compliance for high-circuit applications

Fully isolated terminals

Protect against potential damage of the header and receptacle terminals during handling and mating

Retention tang and contact rib

Maintains stable contact

SMT headers provide short electrical paths

Deliver superior signal integrity performance

Applications**Automotive**

- Interior Lighting and Navigation

Consumer

- AR/VR
- Mobile devices
- Refrigerator
- Washing machine

Defense

- C4ISR

Home Appliance

- White goods

Industrial

- Assembly line equipment
- Food and beverage
- Industrial controls
- Production lines

Medical

- Healthcare IT
- Patient Monito

Telecommunications/Networking

- Servers
- Switches