



Mega-Fit Power Connectors deliver cutting-edge current density at 23.0A per circuit; terminals provide six independent contact points for long-term reliability in virtually every industry and application

Continuing to innovate the interconnect industry, Molex expands current-carrying capabilities up to 23.0A with Mega-Fit power connectors — enabling the highest current-density option compared to existing mid-range power connectors.

The patented split-box terminal design offers six independent points of contact to provide long-term reliability through secondary current-path redundancy.

Mega-Fit power connectors maintain many of the characteristics of Molex’s proven power products including isolated terminals, positive housing locks and polarized housings.

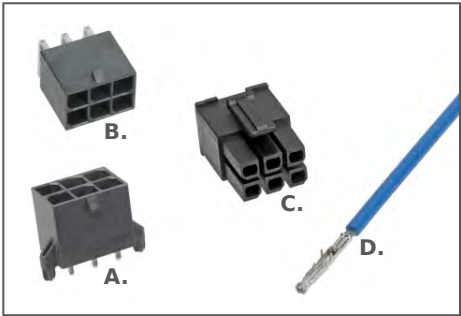
Features and Benefits

Power-dense design with high-current terminals, tight pitch and row spacing	Provides more power per linear and square millimeter than any other mid-range power product in the industry
Terminal interface with six independent points of contact (split-box terminal design)	Offers redundant, secondary current paths for long-term performance and reliability
Extended barrel conductor crimp	Provides extremely strong terminal-to-wire retention for long-term reliability
Sacrificial contacts	Allows system to be “hot plugged” at 48V/23.0A up to 30 cycles
Fully isolated header pins and receptacle terminals	Protects against potential damage during handling and mating
Positive locking housing	Ensures secure retention when receptacle and header are mated. Delivers an audible click to provide feedback that connector is fully mated

Mega-Fit Power Connectors

5.70mm Pitch

172063	Crimp Terminals, Gold
171692	Receptacle, 94 V-0
170001	Receptacle, Glow-Wire
172064	Right-Angle Headers, Gold
172065	Vertical Headers, Gold



Mega-Fit Power Connector Family
A. Vertical Header, Gold (Series 172065)
B. Right-Angle Header, Gold (Series 172064)
C. Receptacle (Series 171692, 170001)
D. Female Crimp Terminal, Gold (Series 172063)



Specifications

Reference Information

UL File No.: E29179
CSA File No.: LR19980
IEC: In process
RoHS: Yes
Halogen Free: Headers only
Glow Wire Compliant:
Yes, some options

Electrical

Voltage (max.): 600V
Current (max.): 23.0A
Contact Resistance (max. change):
6 milliohms
Current Interrupt Rating:
48V AC/DC, 23.0A max. up to
30 mate and un-mate cycles

Mechanical

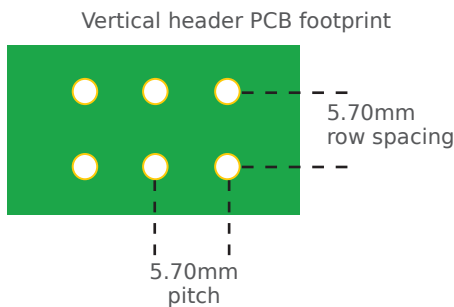
Contact Retention to Housing: 30N
Mating Force (max.):
5.6N per circuit, Gold (Au)
Unmating Force (max.):
5.6N per circuit, Gold (Au)
Durability (max.):
200 mating cycles, Gold (Au)
Wire Pull-Out Force (min.):
12 AWG: 220N

Physical

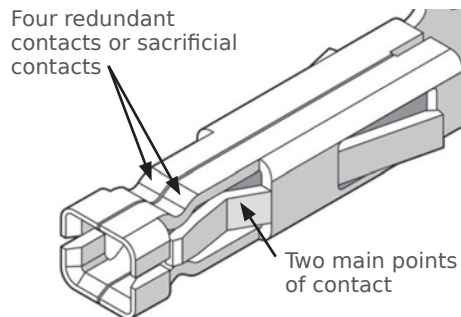
Header:
UL 94 V-0, glow-wire and low-halogen
Contact:
High-conductivity copper
Plating:
Contact Area —
Gold (Au) 30u" and 15u" options
Solder Tail Area — Tin (Sn)
Underplating — Nickel (Ni)
PCB Thickness:
1.60 and 2.40mm (.062 and .093")
Operating Temperature (max.):
-40 to +105°C

Additional Product Features

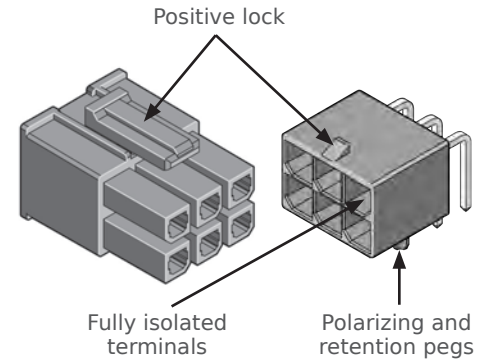
The most power-dense mid-range product — 23.0A per contact



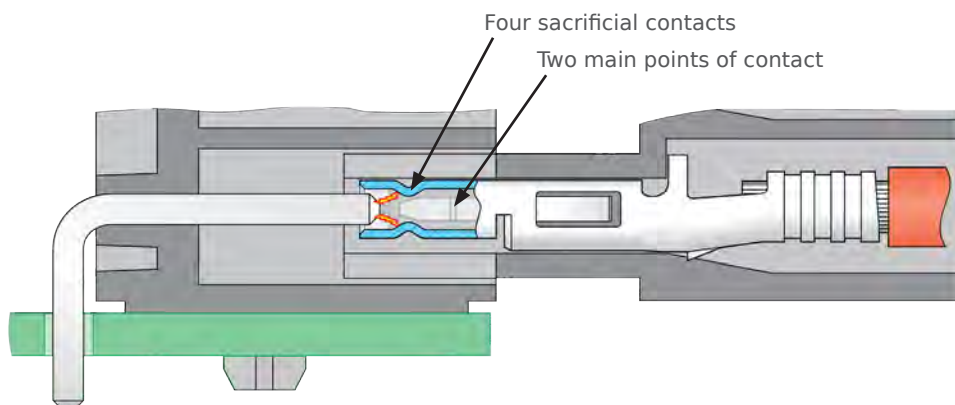
Six independent points of contact



Premium housing features



Hot pluggable



The female terminal has four sacrificial contacts to attract arcing and protect the two main points of contact when unmating the connector while the system is under full power
Current interrupt rating at UL for 48V at 23.0A



Applications

Consumer / Home Appliance

- Washers and dryers
- Heaters and air conditioners

Networking and Telecommunication

- Hubs and servers
- Power supplies and distribution

Industrial

- Machinery and heavy equipment
- Lighting and automation

Commercial Vehicle

- Unsealed electronic control modules
- Power converters



Servers

Mega-Fit Power Connectors 5.70mm Pitch



Washers and dryers

Ordering Information

Receptacles

Series No.	Circuit Identification	Packaging	Flammability Rating
171692	Yes	Bag	UL 94 V-0
170001			Glow-Wire

Headers

Series No.	Orientation	Plating	Packaging	Flammability Rating
172064	Right-Angle	Gold	Tray	UL 94 V-0 Glow-Wire
172065	Vertical			

Terminals

Series No.	Base Material	Wire Gauge (AWG)	Packaging
172063	Copper Alloy	12, 14 or 16	Reel

Application Tooling

Wire Gauge (AWG)	Hand Crimp Tool	Applicator
12	63825-7100	63902-3400
14 to 16		63902-3300

www.molex.com/link/megaft.html