Mega-Fit Power Connectors, 5.70mm Pitch

molex®

Mega-Fit Power Connectors deliver 23.0A per circuit through fully protected header pins and receptacle terminals while offering unique keying options to ensure proper mating during termination

Features and Benefits

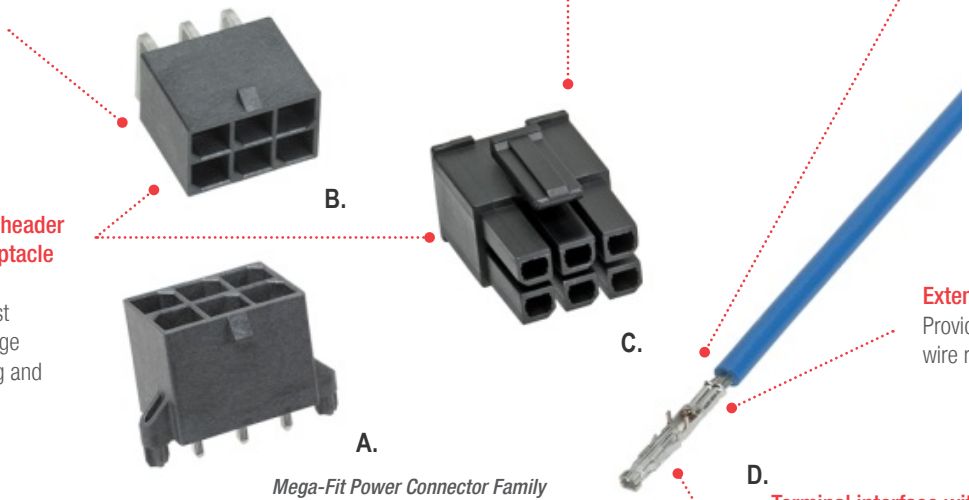
Power-dense design with high-current terminals, tight pitch and row spacing
Provides more power per linear and square millimeter than other mid-range power products in the industry

Positive locking housing
Ensures secure retention when receptacle and header are mated. Delivers an audible click to provide feedback that connector is fully mated

Tin-plated contacts available
Enhances design flexibility. Provides significant cost savings

Sacrificial contacts
Allows system to be "hot plugged" at 48V/23.0A up to 30 cycles

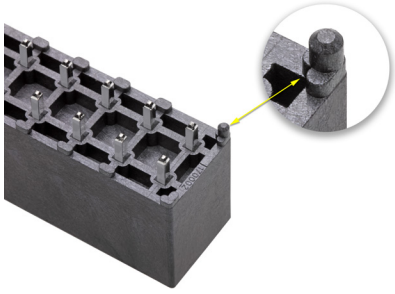
Fully isolated header pins and receptacle terminals
Protects against potential damage during handling and mating



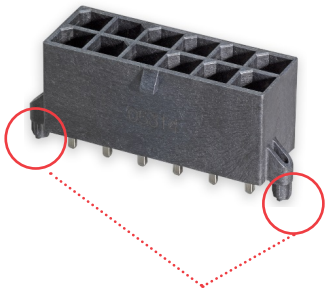
Mega-Fit Power Connector Family
A. Vertical Header (Series 172065, 76829)
B. Right-Angle Header (Series 172064, 76825)
C. Receptacle (Series 171692, 170001)
D. Female Crimp Terminal (Series 172063, 76823)

Extended barrel conductor crimp
Provides extremely strong terminal-to-wire retention for long-term reliability

Terminal interface with six independent points of contact (split-box terminal design)
Offers redundant, secondary current paths for long-term performance and reliability



Polarization peg to engage with PCB
Replaces the crush pegs to provide stability without taking up room on the PCB. Aids assembly by ensuring correct orientation



Crush peg removal
Delivers a smaller footprint on the PCB

Applications

Home Appliance
- Washers and Dryers
- Heaters and Air Conditioners

Telecommunication/Networking
- Hubs and Servers
- Power Supplies and Distribution

Industrial
- Machinery and Heavy Equipment
- Lighting and Automation

Commercial Vehicle
- Unsealed Electronic Control Modules
- Power Converters

Consumer Appliances

Industrial Machinery

Mega-Fit Power Connectors, 5.70mm Pitch

molex®

Specifications

REFERENCE INFORMATION
Packaging:
UL File No.: E29179
CSA File No.: LR-19980_A_000
Mates With: Mega-Fit Receptacles
Use With: Mega-Fit Receptacles
Terminal Used: Series 172063, 076823
Designed In: Millimeters
RoHS: Yes, Compliant Materials
Halogen Free: Yes or No
Glow Wire Compliant: Yes

ELECTRICAL
Voltage (max.): 600V
Current (max.): 23.0A
Contact Resistance: 6 Milliohms
Dielectric Withstanding Voltage: No breakdown
Current leakage <5mA
Insulation Resistance (min.): 1,000 Megohms

MECHANICAL
Contact Insertion Force:
Contact Retention to Housing: 30N
Insertion Force to PCB:
Mating Force: Tin plated (max.): 6.8N initial mating force per circuit
0.36 or 0.78µ (15 or 30µ") Gold plated (max.): 6.0N per circuit
Unmating Force: Tin plated (max.): 6.5N initial unmating force per circuit
0.36 or 0.78µ (15 or 30µ") Gold plated (max.): 5.6N per circuit
Durability (min.): Maximum change from initial: Tin: 2 Megohms; Gold: 2 Megohms
Header Pin Retention Force in Housing
Vertical Header: 89N min per pin

PHYSICAL
Housing: UL 94 V-0, Glow-Wire and Low-Halogen
Contact: High-Conductivity Copper
Plating:
Contact Area: Gold (Au) 0.36 or 0.78µ (15 or 30µ") options or Tin (Sn)
Solder Tail Area: Tin (Sn)
Underplating — Nickel (Ni)
PCB Thickness: 1.60 and 2.40mm (.062 and .093")
Operating Temperature: -40°C to 105°C

Ordering Information

Series No.	Component	Orientation	Plating	Flammability Rating
171692	Receptacles	Straight	---	UL 94 V-0
170001				Glow-Wire
172064	Headers	Right-Angle	Gold	UL 94 V-0 and Glow-Wire
76825			Tin	
172065		Vertical	Gold	
76829			Tin	
76829	Slim Headers		Tin	
172065			Gold	
200122	Standard and Glow-Wire Dual-Row Backshell Half	–	–	
		Wire Size - AWG	Wire Size - Metric	Base Material
172063	Crimp Terminals	12, 14 or 16 AWG	1.50, 2.50 or 4.00mm²	Copper Alloy
76823				

www.molex.com/link/megafit.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.

Order No. 987650-5401 Rev. 5 USA/0k/GF/2017.06
©2017 Molex