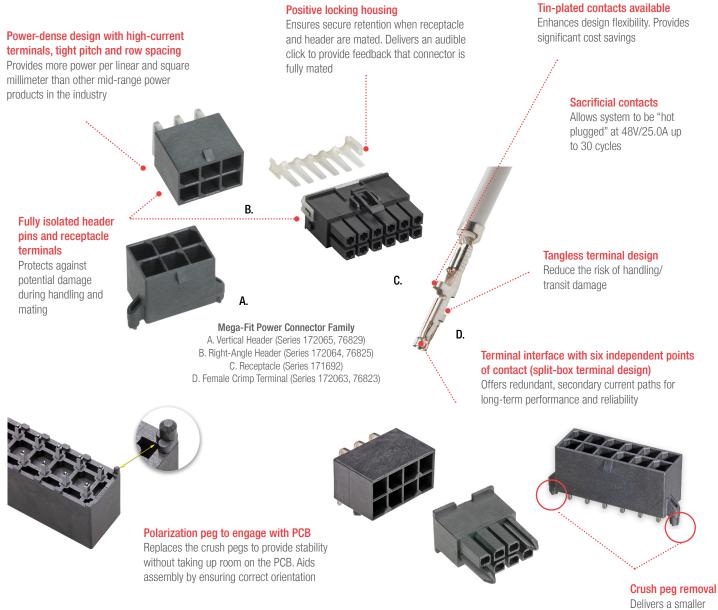


Mega-Fit Power Connectors deliver 25.0A per circuit through fully protected header pins and receptacle terminals while offering unique keying options to ensure proper mating during termination

Features and Advantages



footprint on the PCB

molex

Features and Advantages

Dual-Row W-to-W and Single-Row Systems



Polarizing and unique keying features

- Provide protection of the terminals in the receptacle
- · Allow for compatibility with all current Mega-Fit Dual-Row headers
- Prevent electrical arcing when charged • Avoids mis-mating of receptacles to



TPA lead-in

Provides a guide and lead-in for the TPA on both the receptacle and plug



TPA Prevents terminal backout

New housing material Meets V0 and glow-wire European standards



Features and Advantages Single-Row

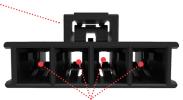
Fully isolated terminals

Protect against potential damage of header terminals during mating



Inertia latch

Provides superior retention when mated to the header and allows for low-mating force



Internal receptacle locking mechanism Supports the tangless locking terminal with low insertion force

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



Commercial Vehicles



New latch design Provides superior retention when mated to the header and allows for low-mating force

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Specifications

REFERENCE INFORMATION

Packaging: Bag, Reel, Tray UL File No.: E29179 CSA File No.: LR-19980_A_000 Mates With: Mega-Fit Receptacles, Plugs Use With: Mega-Fit Receptacles, Plugs Terminal Used: Series 172063, 076823, 105418, 105417 Designed In: Millimeters RoHS: Yes, Compliant Materials Halogen Free: Yes or No Glow Wire Capable: Yes

Dual-Row Wire-to-Wire and Single-Row Systems Mates With: Single-Row HDR: 200456 Single-Row REC: 200241 TPA: 200456, 171692, 105412 Dual-Row Plug: 171692 Dual-Row HDR: 171692 Dual-Row REC: 105412, 76825, 76829, 172064, 172065 Male Terminal: 76823, 172063 Female Terminal: 105418, 105417

Use With:

Male Terminal: 105412 Female Terminal: 171692, 200456 TPA: 200456, 171692 Single-Row Receptacle: 76823, 105415 Dual-Row Receptacle: 76823, 105415 Single-Row Receptacle: 76823, 105415 Dual-Row Plug: 105418, 105415

ELECTRICAL

Voltage (max.): 600V Current (max.): 25.0A Contact Resistance: 6 milliohms Dielectric Withstanding Voltage: No Breakdown Current leakage: <5mA Insulation Resistance (min.): 1,000 Megohms

MECHANICAL

Contact Insertion Force (max.): 6.8N Contact Retention to Housing: 30N Insertion Force to PCB (max.): 85N Mating Force: Tin plated (max.): 6.8N initial mating force per circuit 0.38 or 0.76µ (15 or 30µ") Gold plated (max.): 6.0N per circuit

Unmating Force: Tin plated (max.):

6.5N initial unmating force per circuit
0.38 or 0.76μ (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 Combination Contact: High-Conductivity Copper Plating: Contact Area: Gold (Au) 0.38 or 0.76µ (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 to +150°C

Ordering Information

HEADER

Series No.	Component	Row	Circuits	Plating
<u>76825</u>	Right Angle	Dual	2 to 12	Tin
<u>76829</u>	Vertical			
<u>172064</u>	Right Angle			Gold
<u>172065</u>	Venicel			
<u>200241-11XX</u>	Vertical	Single	2 to 8	Tin/Gold
<u>200241-12XX</u>	Right Angle			

TERMINAL

Series No.	Туре	AWG	Plating
<u>76823</u>	Female		Tin
<u>172063</u>			Gold
105417	Male	12 to 16	Tin
<u>105418</u>			Gold



Ordering Information

RECEPTACLE

Series	Row	Circuits
<u>171692</u>	Dual	2 to 12
<u>200456</u>	Single	2 to 8

PLUG

Series	Row	Circuits	Panel Mount
<u>105411-01XX</u>	Dual	2 to 12	No
<u>105411-11XX</u>			Yes

TPA (TERMINAL POSITION ASSURANCE)

Series	Circuits
<u>105415</u>	2 to 8

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