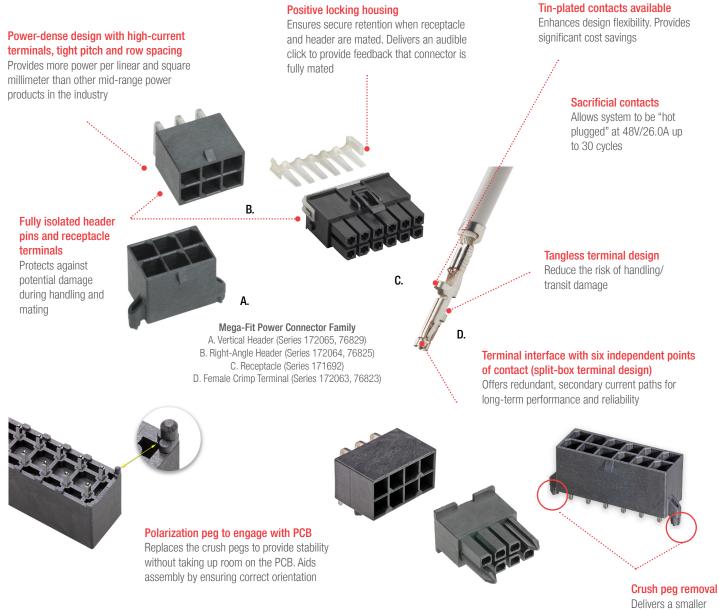


Mega-Fit Power Connectors deliver 26.0A per circuit through fully protected header pins and receptacle terminals while offering unique keying options to ensure proper mating during termination

#### Features and Advantages



footprint on the PCB

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#### **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



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



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



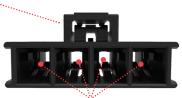
#### **Features and Advantages Single-Row**

#### Fully isolated terminals

Protect against potential damage of header terminals during mating



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 Automation



**Commercial Vehicles** 



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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.): 26.0A 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			
172064	Right Angle			Gold
172065	Vertical			
<u>200241-11XX</u>		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
<u>105417</u>	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
<u>213814</u>	Single	0 + 0	Yes
<u>213815</u>		2 to 8	No

#### TPA (TERMINAL POSITION ASSURANCE)

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

#### www.molex.com/link/megafit.html

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