



THE DATASHEET OF
768230321



Mega-Fit™ Power Connectors

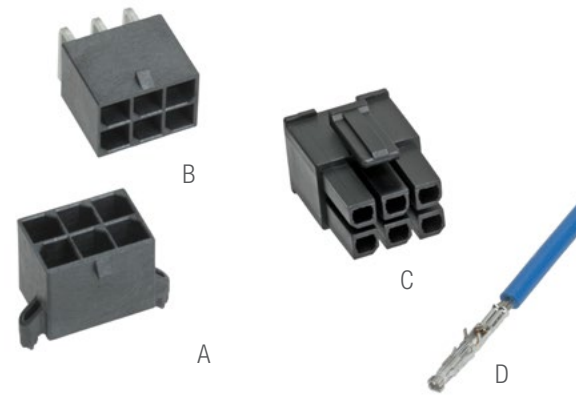
5.70mm Pitch

molex®

Delivering cutting-edge current density at 23.0A per circuit through a split-box terminal design, Mega-Fit Power Connectors incorporate the option for Tin-plated contacts to enhance design flexibility while providing significant cost savings

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 |
| Terminal interface with six independent points of contact (split-box terminal design) | Offers redundant, secondary current paths for long-term performance and reliability |
| Tin-plated contacts now available | Enhances design flexibility. Provides significant cost savings |
| 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 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)

Applications

Consumer / Home Appliance

- Washers and Dryers
- Heaters and Air Conditioners

Networking and Telecommunication

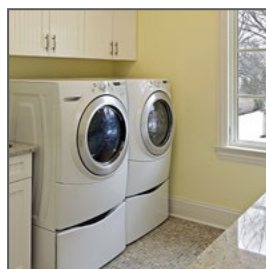
- Hubs and Servers
- Power Supplies and Distribution

Industrial

- Machinery and Heavy Equipment
- Lighting and Automation

Commercial Vehicle

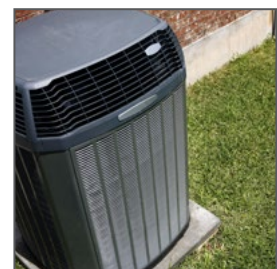
- Unsealed Electronic Control Modules
- Power Converters



Washers and Dryers



Servers



Heaters and Air Conditioners

Specifications

REFERENCE INFORMATION

Reference Information
 UL File No.: E29179
 CSA File No.: LR19980
 IEC: 1400024
 RoHS: Yes
 Halogen Free: Headers only
 Glow Wire Compliant: Yes, with 170001 series receptacle, VDE approved

MECHANICAL

Contact Retention to Housing: 30N
 Mating Force (max.): 5.6N per circuit (Gold), 6.8N (Tin)
 Unmating Force (max.): 5.6N per circuit (Gold), 6.5N (Tin)
 Durability (max.): 200 mating cycles (Gold), 25 cycles (Tin)
 Wire Pull-Out Force (min.): 12 AWG / 4.0mm²: 220N

ELECTRICAL

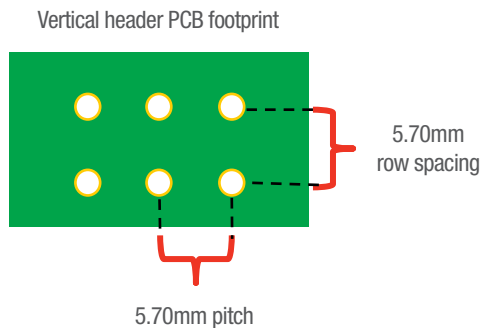
Voltage (max.): 600V
 Current (max.): 23.0A
 Contact Resistance (max. change): 6 milliohms
 Current Interrupt Rating: 48V AC/DC, 23.0A max.
 up to 30 mate and un-mate cycles

PHYSICAL

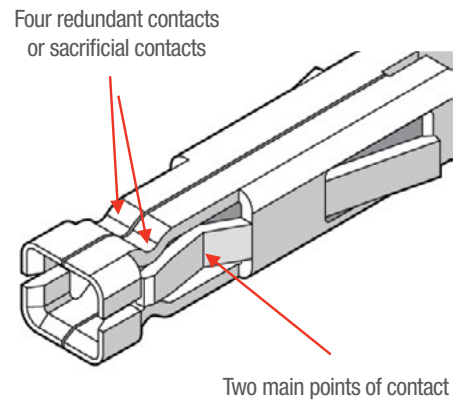
Header: UL 94 V-0, Glow-Wire and Low-Halogen
 Contact: High-Conductivity Copper
 Plating:
 Contact Area —
 Gold (Au) 30u" and 15u" options or Tin (Sn)
 Solder Tail Area — Tin (Sn)
 Underplating — Nickel (Ni)
 PCB Thickness: 1.60 and 2.40mm (.062 and .093")
 Operating Temperature (max.):
 Gold: -40 to +120°C
 Tin: -40 to +105°C

ADDITIONAL PRODUCT FEATURES

THE MOST POWER-DENSE MID-RANGE PRODUCT — 23.0A PER CONTACT



SIX INDEPENDENT POINTS OF CONTACT



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 | |
| | | Wire Size - AWG | Wire Size - Metric | Base Material |
| 172063 | Crimp Terminals | 12, 14, or 16 | 1.50, 2.50, or 4.00mm ² | Copper Alloy |
| 76823 | | | | |

www.molex.com/link/megafit.html

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