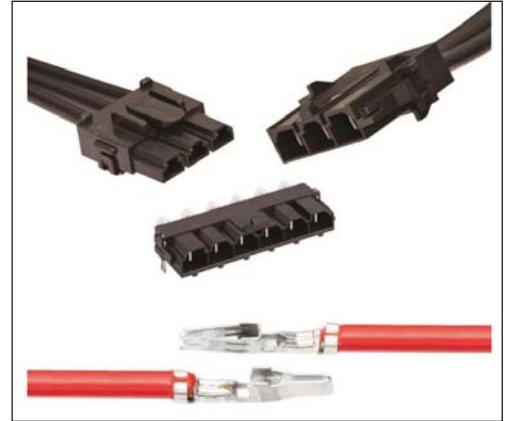


MOLEX Mini-Fit Sr.™ Power Connectors, Silver-plated

Silver-plated connectors support up to 50.0A current with superb electrical reliability and significant costsavings over a vast range of industrial, consumer, power supply, medical and commercial vehicle applications

Features and Benefits:

- Silver-plated contacts
Offers significant cost-savings over gold-plated systems; avoids the need to manually lubricate Tin-plated versions to mitigate fretting corrosion
- High amperage interconnect solution (50.0A)
Supports high-power server, telecommunication and industrial equipment requirements
- Polarized housing
Prevents connector mis-mating
- Dual-beam (female) terminal design
Gives four points of contact and ensures superb contact reliability
- Terminal Position Assurance (TPA) retainer required on housings
Prevents terminal back-out



Applications:

- **Industrial:**
Copiers, Printers, Power supplies
- **Consumer:**
Washers, Dryers
- **Automotive:**
Two-wheelers,
Commercial vehicles
- **Data/Networking/Telecom:**
Servers, Power supplies
- **Medical:**
X-ray



Two-wheelers



Commercial Vehicles



Copiers



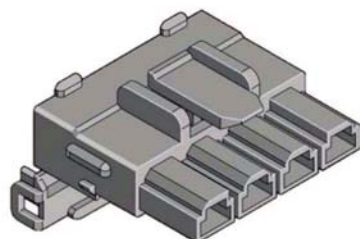
Consumer Appliances



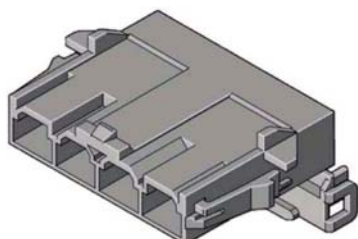
Vending Machines

MOLEX Mini-Fit Sr.™ Power Connectors, Silver-plated

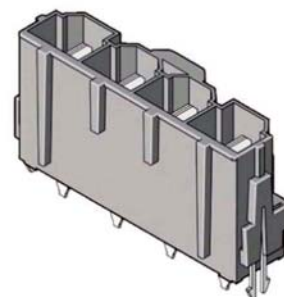
Mating Configuration



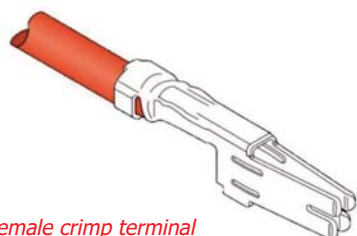
Single-row wire-to-wire receptacle with positive lock and TPA retainer



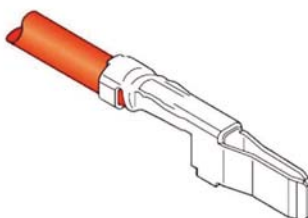
Panel-mounted single-row plug



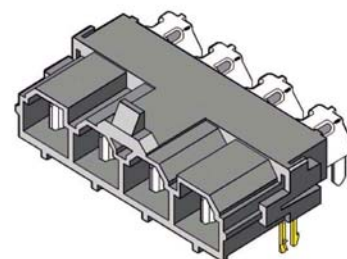
Vertical, through-hole, single-row PCB header with forklocks



Female crimp terminal



Male crimp terminal



Right angle, through-hole, single-row PCB header with forklocks

Specifications

Electrical

Voltage (max.):	600V AC /DC
Current (max.):	50.0A per contact
Contact Resistance (max.):	1.0 milliohm
Insulation Resistance (min.):	1000 megohm

Mechanical

Contact Insertion Force:	0.25kg (min.) and 3kg (max.)
Contact Retention to Housing (min.):	10.0 kg
Insertion Force to PCB (max.):	2.0kg
Mating Force (max.):	3.0kg
Unmating Force (max.):	3.0kg
Durability (min.):	30 cycles

Physical

Housing:	Black
Contact:	Copper Alloy
Plating:	Contact Area — Silver (Ag) Solder Tail Area — Tin (Sn) Underplating — Nickel (Ni)
PCB Thickness:	0.062, 0.093, 0.125, 0.25mm
Operating Temperature:	-40°C to +105°C

TPA Retainer – Application Guide

1. Detach TPA retainer from the housing as shown in the reverse (or underside) view of the crimp receptacle
2. Insert the appropriate terminal into the housing (female terminal used in illustration)
3. Snap the TPA retainer onto the receptacle housing to secure the assembly as shown below

