THE DATASHEET OF

1718260100

Super Sabre Power Connector System

molex®

Delivering 34.0A per blade and withstanding up to +125°C operating temperatures, Super Sabre Power Connectors use proven technology for long-term performance and reliability in virtually every industry

34.0A per blade current rating and 600V
Match requirements for high-current and high-voltage applications in a low-profile design

USCAR-2, level 3 operating temperature to +125˚C
Ideal for high-operating temperature applications, including

Flat-blade terminal design with four independent points of electrical contact
Offers redundant, secondary current paths for long-term performance and reliability. Provides a more reliable electrical connection than circular-style terminals

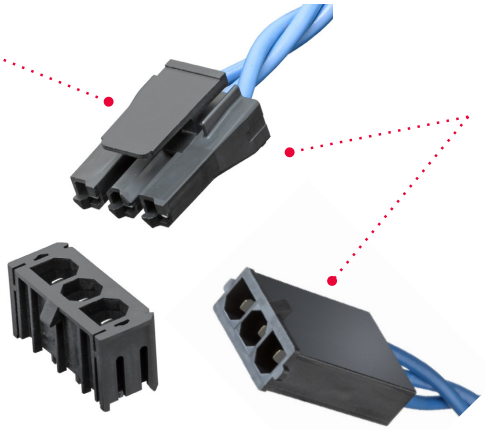


Silver-plated, high-conductivity alloy terminals
Provide high-performance connections that eliminate fretting-corrosion concerns. Delivers a more cost-effective solution compared to gold-plated terminals. Optimized for 10 to 12 AWG wires

Positive latch and terminal position assurance (TPA) features on receptacle
Prevent terminal back-out with mating plug or header in high-vibration applications

Wire-to-wire and wire-to-board configurations
Deliver design flexibility with significant space and cost savings. Compatible with lead-free wave soldering and reflow soldering processes

Fully isolated terminals on both mating sides
Provide complete protection against damage or shock



UL1977 and UL60950 finger-test-certified blade
Meets safety requirements for many consumer applications

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Home Appliance
- Ranges
- Refrigerators
- Laundry equipment
- Vacuums
- Air conditioners

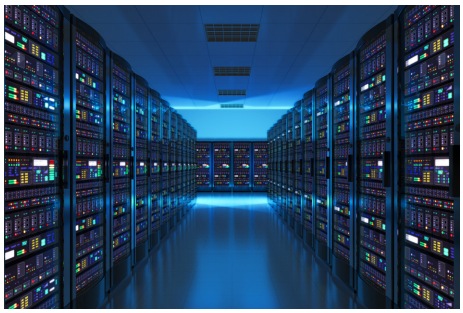
Telecommunications/Networking
- Switches
- Servers
- Base stations
- Power supplies
- Fan / blower racks

Commercial Vehicle

Medical
- Patient monitors
- Diagnostic imaging
- Therapeutic devices

Industrial
- 100 to 600W units





Specifications

REFERENCE INFORMATION
Packaging: Trays or Tubes
UL File No.: E29179
CSA File No.: LR19980
Mates With: Super Sabre Plugs and Headers
Terminal Used: Super Sabre terminals
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes, Low Halogen
Glow Wire Compliant: Optional

ELECTRICAL
Voltage (max.): 600V
Current (max.): 34.0A
Contact Resistance: 5 milliohms
Dielectric Withstanding Voltage: 5000V
Insulation Resistance: 1000 Megohms

MECHANICAL
Contact Insertion Force: 6.0N
Contact Retention to Housing: 67.0N / 125.0N (TPA)
Insertion Force to PCB (avg.): 34.0N
Mating Force (max.): 17.8N
Unmating Force (min.): 2.2N
Durability (min.): 25 cycles

PHYSICAL
Housing:
  Headers: LCP
  Crimp Housing: Nylon
Contact: High-performance copper alloy
Plating:
  Contact Area — Silver
  Solder Tail Area — Tin
  Underplating — Nickel
PCB Thickness: 1.57 to 3.18mm
Operating Temperature:
  -40 to +125°C (per USCAR-2)

Ordering Information

Series No.	Component
172042	Vertical PCB Header
172043	Right-Angle PCB Header
171825	Female Crimp Terminal

Series No.	Component
171826	Male Crimp Terminal
172672	Receptacle Housing
172673	Plug Housing

www.molex.com/link/supersabre.html

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