



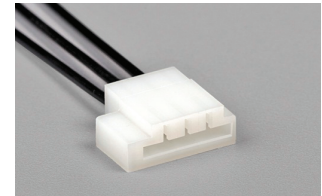
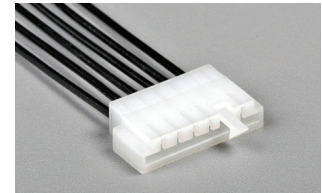
Eliminating the need for mating header, EdgeMate™ power connector offers positive PCB-locking and significant cost savings for wire-to-edge-card terminations in appliance, industrial and lighting applications

Features and Benefits

Mates directly to the PCB edge card without a mating header	Reduced inventory, bill-of-material and manufacturing costs without having to invest in headers
Positive-lock design	Offers strong PCB-to-connector retention
Polarized housing	Ensures correct orientation with the PCB
Bifurcated (dual contact-point) terminals support up to 7.0A current	Allows secondary current paths for long-term electrical performance and reliability
Polarized crimp terminal	Ensures correct terminal orientation and insertion
Connectors without locking features (option)	Versions without lock give greater pricing flexibility to suit customer need

EdgeMate™ Wire-to-Edge-Card Power Connectors, 3.96mm Pitch, with Positive Lock

- 172159** Connector Housing (with or without lock)
- 172160** Bifurcated Crimp Terminals



EdgeMate™ Wire-to-Edge Card Power Interconnects, with and without locking feature

Applications

Consumer/Home Appliances

- Fitness
- Home Appliances
- Home Entertainment
- HVAC

Industrial

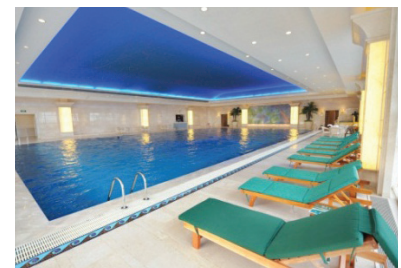
- Power (Power Supplies, UPS)
- Wire-to-Device

Solid State Lighting

- Indoor and Outdoor Illumination



Consumer Vehicles and Home Entertainment Systems



Indoor and Outdoor Lighting



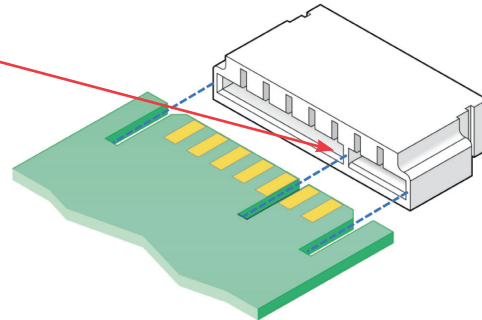
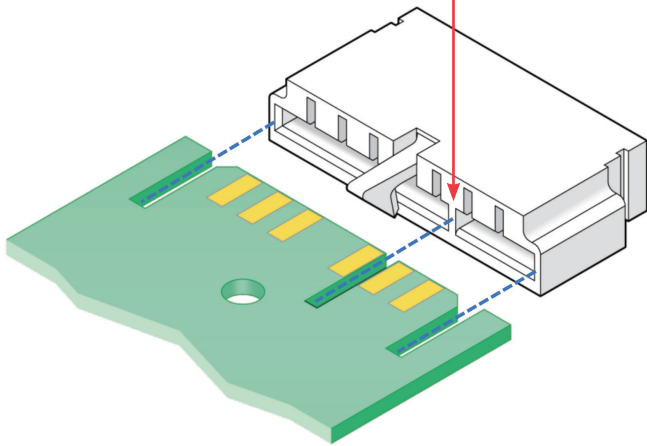
HVAC



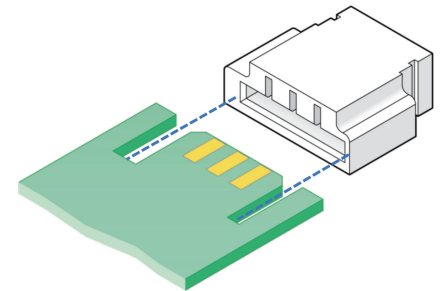
Product Features

EdgeMate™ Wire-to-Edge-Card Power Connectors, 3.96mm Pitch, with Positive Lock

Polarization rib on connector housing provide fool-proof mating to PCB whether in locking or non-locking versions



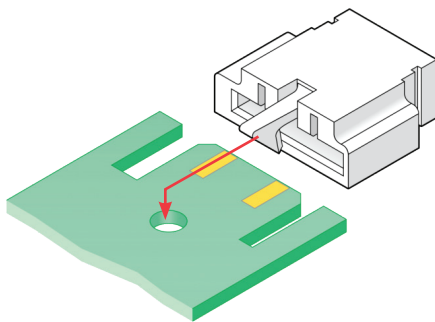
Inner-rib polarization feature of a non-locking housing



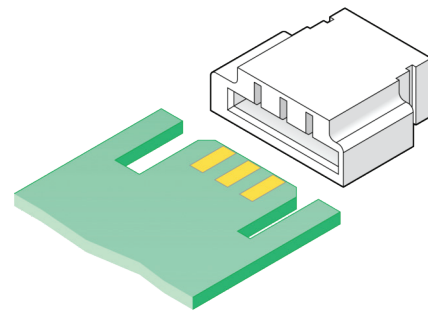
Thick-wall polarization feature of a non-locking housing

Polarization ribs on the connector housing ensure correct mating to PCB circuitry

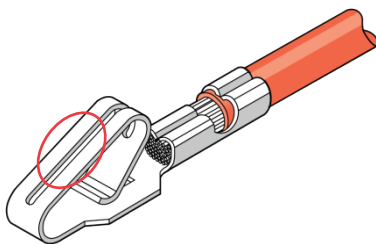
Additional Product Features



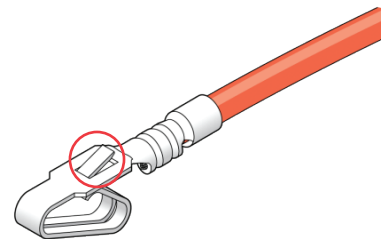
A PCB with hole is used with locking connector version



A PCB without hole is used with a non-locking version connector



The bifurcated crimp terminal offers 2 points of contact (or secondary paths) for long-term electrical reliability



Reverse side of crimped terminal showing locking tang feature which prevents accidental terminal back-out once inserted into the housing cavity

Specifications

Reference Information

Packaging:
 Bag for Housing;
 Reel for Terminals
 Mates With: Edge Card PCB (circuit size determined by customer)
 Terminal Used: Series 172160
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes
 Glow Wire Compliant: Under evaluation

Electrical

Voltage (max.): 250V
 Current (max.):
 7.0Amps (Phosphor Bronze)
 5.0Amps (Brass)
 Contact Resistance (max.):
 10 milliohms
 Dielectric Withstanding Voltage:
 1000V
 Insulation Resistance (min.):
 1000 Megohms

Mechanical

Contact Insertion Force (max.): 17.8N
 Contact Retention to Housing (min.):
 35.6N
 Durability (min.): 25 cycles

Physical

Housing: Nylon 6/6, UL94-V2
 Contact: Refer Table
 Plating:
 Contact Area — Tin (Sn)
 Underplating — Nickel (Ni)
 PCB Thickness: 0.062" (1.57mm)
 Operating Temperature: 0 to +75°C

Ordering Information

Crimp Terminals

Part No.	Wire Range	Base Material	Finish
172160-1802	18-20 AWG	Phosphor Bronze	Select Gold (Au)
172160-1803			Tin (Sn)
172160-1805		Brass	Select Gold (Au)
172160-1806			Tin (Sn)

Housing with Positive Lock

Part No.	Circuits	Part No.	Circuits
172159-0502	2	172159-0608	8
172159-0503	3	172159-0609	9
172159-0604	4	172159-0610	10
172159-0605	5	172159-0611	11
172159-0606	6	172159-0612	12
172159-0607	7	-	-

Housing without Lock

Part No.	Circuits	Part No.	Circuits
172159-0003	3	172159-0208	8
172159-0004	4	172159-0209	9
172159-0205	5	172159-0210	10
172159-0206	6	172159-0211	11
172159-0207	7	172159-0212	12