



Available in glow-wire-compatible versions, EdgeMate power connectors eliminate the need for mating headers, offering significant cost savings 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
Glow-wire compatible versions (meeting IEC 60355-1 safety standards)	Ensures safety and protection of end-users in the event of glow-wire overload
Positive-lock design (applicable to non glow-wire-compatible versions only)	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)	Give pricing flexibility to suit customer needs

## Applications

### Consumer/Home Appliances

- Fitness
- Home Appliances
- Home Entertainment
- HVAC

### Industrial

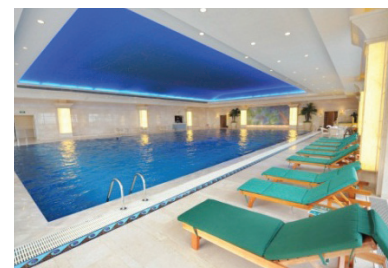
- Power (Power Supplies, UPS)
- Wire-to-Device

### Solid State Lighting

- Indoor and Outdoor Illumination



Consumer Vehicles and Home Entertainment Systems



Indoor and Outdoor Lighting



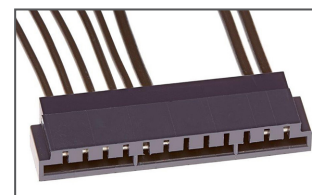
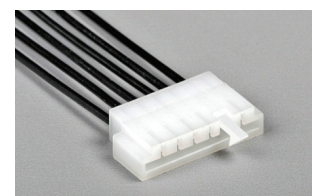
HVAC

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

**172159** Connector Housing (with or without lock)

**172160** Bifurcated Crimp Terminals

**172879** Glow-wire compatible (IEC 60335-1)



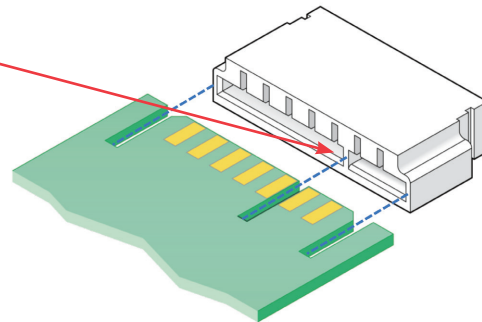
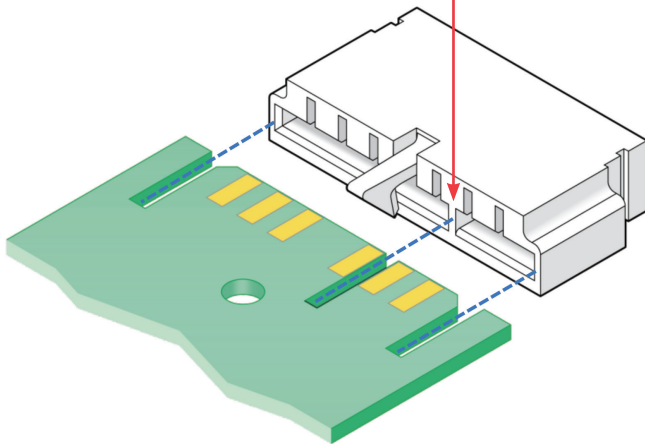
EdgeMate™ Wire-to-Edge Card Power Interconnects, with and without locking feature



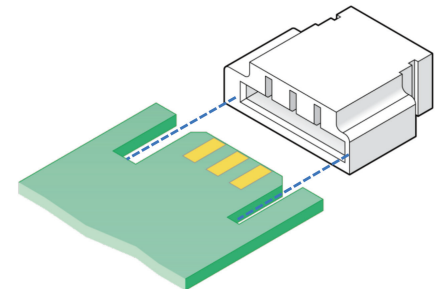
## Product Features

## 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



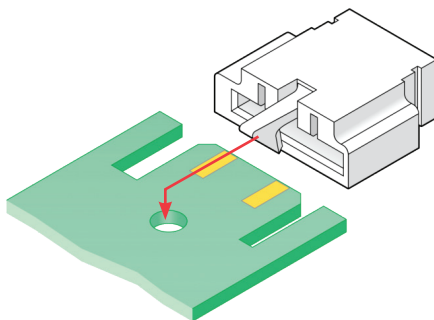
Inner-rib polarization feature of a non-locking housing



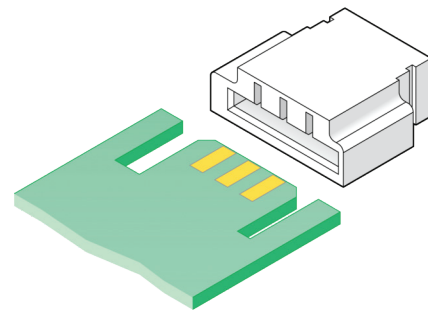
Polarization ribs on the connector housing ensure correct mating to PCB circuitry

Thick-wall polarization feature of a non-locking housing

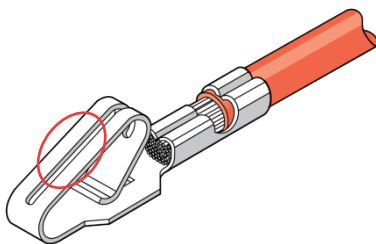
## Additional Product Features



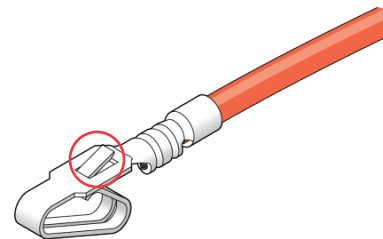
A PCB with hole is used with locking connector version



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:

Refer table below

### Electrical

Voltage (max.): 250V

Current (max.):

7.0A (Phosphor Bronze)

5.0A (Brass)

Contact Resistance (max.):

10 milliohms

Dielectric Withstanding Voltage:

1000V

Insulation Resistance (min.):

1000 Megohms

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

### Mechanical

Contact Insertion Force (max.): 17.8N

Contact Retention to Housing (min.):

35.6N

Durability (min.): 25 cycles

### Physical

Housing:

Nylon 6/6 and Glow-wire UL94-V2

Plating:

Contact Area — Refer Table

Underplating — Nickel (Ni)

PCB Thickness: 1.57mm

Operating Temperature:

Brass Terminals -40° to +80°C\*

Phosphor Bronze Terminals

-40° to +105°C\*

\* Including terminal temperature rise when applying electrical current.

## Ordering Information

### Crimp Terminals

Part No.	Wire Range	Base Material	Finish
<a href="#">172160-1802</a>	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
<a href="#">172159-0502</a>	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
<a href="#">172159-0003</a>	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

### Housing without Lock (Glow-wire compatible versions)

Part No.	Circuits	Part No.	Circuits
<a href="#">172879-0003</a>	3	172879-0208	8
172879-0004	4	172879-0209	9
172879-0205	5	172879-0210	10
172879-0206	6	172879-0211	11
172879-0207	7	172879-0212	12