

Board-In Connectors >

Providing a wide range of pitch options, mating configurations and circuit sizes, Molex Board-In Connectors are reliable and versatile. These connectors overcome design limitations and offer cost-effective methods for wire-to-board applications.



ADVANTAGES AND FEATURES

Ensures secure terminal retention force

Terminal and housing locking features help reduce risk of faulty connections which cause end-product failure.

Provides space and cost savings

One-piece direct solder-to-board assembly are easy to apply and help avoid additional purchasing and space limitations.

Offer design flexibility

These connectors are available in a wide variety of pitch sizes, now including 4.00mm, configurations and circuit sizes to help customers overcome space and design limitations.

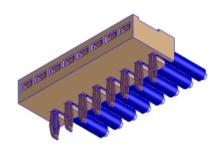
Pitch	2.00, 2.50 and 4.00mm
Current	5.0A
Voltage	250V
Operating Temperatures	-40 to +105°C

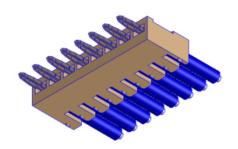
Offers compatible and reliable solder fillet

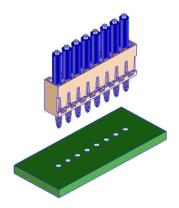
These connectors accept standard through-hole soldering methods and overcome the challenges of uneven and labor-intensive hand soldering.

Protects terminals

Right-angle and vertical housing options function as wire alignment and a retention device during the soldering process and as strain relief after soldering.







MARKETS AND APPLICATIONS

Automotive

Infotainment

Home Appliance

HVAC equipment Refrigerators

Industrial

Factory machines Power tools







Infotainment

HVAC Systems

Factory Machines



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SPECIFICATIONS

2.00mm Vertical (51015)

Reference Information

Packaging: Terminal—reel Housing—bag Designed In: Millimeters

RoHS: Yes Halogen Free: No

Electrical

Voltage (max.): 125V Current (max.): 2.0A

Contact Resistance (max.): 5 milliohms

Dielectric Withstanding Voltage: 500V AC (rms) Insulation Resistance (min.): 1,000 Megaohms

Wire Size: 30 to 26 AWG

Physical

Housing: Polyamide (natural) Terminal: Phosphor bronze Plating: Contact Area—tin

Operating Temperature: -40 to +105°C

2.00mm Right-Angle/Vertical (35023)

Reference Information

Packaging: Terminal—reel Housing—bag Designed In: Millimeters

RoHS: Yes Halogen Free: No

Electrical

Voltage (max.): 125V Current (max.): 2.5A Contact Resistance (max.): 5 milliohms Dielectric Withstanding Voltage: 1,000V AC (rms)

Insulation Resistance (min.): 1,000 Megaohm

Wire Size: 30 to 24 AWG

Physical

Housing: Polyamide (ivory) Terminal: Phosphor bronze, brass Plating: Contact Area—tin Operating Temperature: -40 to +105°C

2.50mm Vertical (51035)

Reference Information

Packaging: Terminal—reel Housing—bag Designed In: Millimeters

RoHS: Yes

Halogen Free: Low Halogen

Electrical

Voltage (max.): 250V Current (max.): 4.0A

Contact Resistance (max.): 5 milliohms Dielectric Withstanding Voltage: 1,000V AC (rms) Insulation Resistance (min.): 1,000 Megaohm

Wire Size: 24 to 20 AWG

Physical

Housing: Polyamide (natural) Terminal: Phosphor bronze Plating: Contact Area—tin Operating Temperature: -40 to +105°C

2.50mm Right-Angle/Vertical (35022)

Reference Information

Packaging: Terminal: Reel Housing: Bag Designed In: Millimeters RoHS: Yes

Halogen Free: Low halogen

Electrical

Voltage (max.): 125V Current (max.): 3.0A Contact Resistance (max.): 5 milliohms Dielectric Withstanding Voltage: 1,000V AC (rms) Insulation Resistance (min.): 1,000 Megaohm Wire Size: 28 to 22 AWG

Physical

Housing: Polyamide (ivory) Terminal: Phosphor bronze, brass Plating: Contact Area—tin Operating Temperature: -40 to +105°C

4.00mm Vertical (51036)

Reference Information

Packaging: Terminal—reel Housing—bag Designed In: Millimeters RoHS: Yes Halogen Free: No

Electrical

Voltage (max.): 250V Current (max.): 5.0A Contact Resistance (max.): 5 milliohms Dielectric Withstanding Voltage: 1,000V AC Insulation Resistance (min.): 1,000 Megaohms Wire Size: 22 to 18 AWG

Physical

Housing: Polyamide (ivory) Terminal: Phosphor bronze, brass Plating: Contact Area—tin Operating Temperature: -40 to +105°C



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ORDERING INFORMATION

2.00mm Pitch (Replace xx with circuit size)

Order No.	Туре	Comments
51015-xx00	Housing (Vertical)	2 to 10 Circuit sizes
<u>50034-8000</u>	Terminal (Vertical)	30 to 26 AWG
<u>35023-00xx</u>	Housing (Right-Angle/Vertical)	2 to 16 Circuit sizes
<u>35021-1201/1301/1360</u>	Terminal (Right-Angle)	30 to 24 AWG
<u>35044-9102</u>	Terminal (Vertical)	28 to 24 AWG

2.50mm Pitch (Replace xx with circuit size)

Order No.	Туре	Comments
51035-xx00	Housing (Vertical)	2 to 12 Circuit sizes
<u>50097-8000</u>	Terminal (Vertical)	24 to 20 AWG
<u>35022-00xx</u>	Housing (Right-Angle/Vertical)	2 to 15 Circuit sizes
35021-1001/1160	Terminal (Right-Angle)	28 to 22 AWG
<u>35044-9104</u>	Terminal (Vertical)	28 to 22 AWG

4.00mm Pitch (Replace xx with circuit size)

Order No.	Туре	Comments
_51036-0200	Housing (vertical)	2 Circuit sizes
<u>51036-0300</u>	Housing (vertical)	3 Circuit sizes
<u>51036-0400</u>	Housing (vertical)	4 Circuits sizes
50098-8000	Terminal	22 to18 AWG