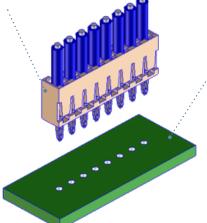
Board-in Connectors Vertical and Right Angle, 2.00 and 2.50 Pitch >

Molex's Board-in connectors offer a variety of pitch and circuit size options, mating configurations for simple but reliable connections

FEATURES AND ADVANTAGES

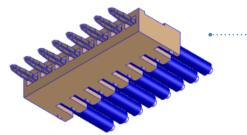
One-piece direct solder-to-board assembly

Provides space and cost saving compared to the two-piece connection system. Easy to assemble



Terminal and housing locking features Help ensure secure terminal retention force

Compatible with standard throughhole soldering methods Offers more reliable solder fillet compared to uneven and labor-intensive hand soldering



Range of pitch and circuit size options For greater design flexibility

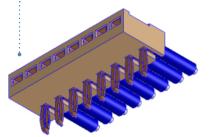




Board-in connectors in 2.00 (top row) and 2.50mm-pitch (bottom row), right-angle and vertical configurations

Right-angle and vertical housing options

Protect terminal and functions as wire alignment and retention device. Provide strain relief after soldering



MARKETS AND APPLICATIONS

Automotive Infotainment

Medical Patient monitoring

Home Appliance HVAC Refrigerator

Industrial Factory machines Power tools



White Goods



Factory Machines



Patient Monitoring Systems

Board-in Connectors Vertical and Right Angle, 2.00 and 2.50 Pitch >

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.): 1000 Megaohm Wire Size: AWG 26 to 30

PHYSICAL

Housing: Polyamide (Natural) Terminal: Phosphor Bronze

PLATING

PHYSICAL

PLATING

Contact Area — Tin

Housing: Polyamide (Ivory)

Terminal: Phosphor Bronze, Brass

Operating Temperature: -40 to +105 C

Contact Area — Tin Operating Temperature: -40 to +105 C

SPECIFICATIONS - 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: 1000V AC (rms) Insulation Resistance (min.): 1000 Megaohm Wire Size: AWG 24 to 30

SPECIFICATIONS - 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: 1000V AC (rms) Insulation Resistance (min.): 1000 Megaohm Wire Size: AWG 20 to 24

SPECIFICATIONS - 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: 1000V AC (rms) Insulation Resistance (min.): 1000 Megaohm Wire Size: AWG 22 to 28

PHYSICAL Housing: Polyamide (Natural) Terminal: Phosphor Bronze

PLATING

Contact Area — Tin Operating Temperature: -40 to +105 C

PHYSICAL

Housing: Polyamide (Ivory) Terminal: Phosphor Bronze, Brass

PLATING

Contact Area — Tin Operating Temperature: -40 to +105 C

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Board-in Connectors Vertical and Right Angle, 2.00 and 2.50 Pitch >

ORDERING INFORMATION

2.00mm Pitch (Replace xx with circuit size)

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

2.50mm Pitch (Replace xx with circuit size)

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

www.molex.com/link/boardin.html