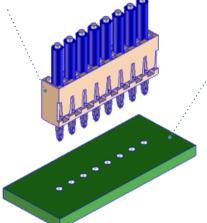
# Board-in Connectors Vertical and Right Angle, 2.00 and 2.50 Pitch >

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

# **FEATURES AND ADVANTAGES**

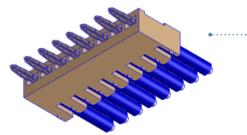
#### **One-piece direct** solder-to-board assembly

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

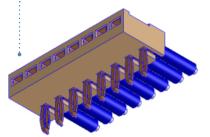




Board-in connectors in 2.00 (top row) and 2.50mm-pitch (bottom row), right-angle and vertical configurations

# 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

# molex

# molex

# 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