

Micro-Latch 2.00mm Wire-to-Board Connector System

molex

Ideal for compact applications, the Micro-Latch 2.00mm Wire-to-Board Connector System provides electrical and mechanical reliability in a high-temperature design that meets automotive, consumer and industrial industry requirements

Features and Advantages



Uses popular crimp terminals

Easy to access the crimp applicators as they are widely available in the market

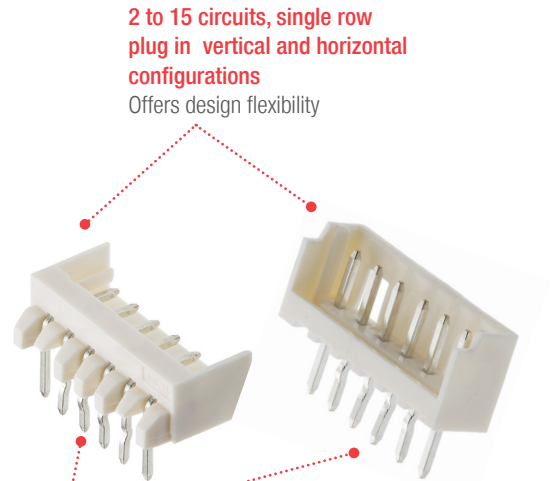
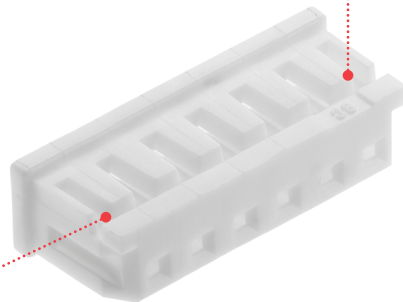
Mold lance

Fastener with terminal lance

Widely popular
AWG# 22-30 cables
are used

Friction lock

Provides better
terminal retention



2 to 15 circuits, single row
plug in vertical and horizontal
configurations

Offers design flexibility

Through hole terminals

Supports terminal
ruggedness and
reliability

RoHS compliance and high-temperature capabilities

Withstands harsh
environments

2.00mm-pitch low-profile connector

Provides space
saving

Polarizing features

Helps to avoid mis-
mating

Applications

Industrial Automation

Commercial Vehicles

Consumer

White goods

Gaming machines

Drones

Air conditioners

Laser printers

Vacuum cleaners

Desktop PCs

Power tools

Automotive

Steering wheel, paddle shift, combination switches

Shifters

Head-, rear- and side-mirror lights

Internal connection with other units



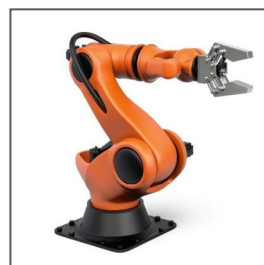
Gaming Machines



White Goods



Steering Wheel Switches



Industrial Automation



Drones

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Specifications

REFERENCE INFORMATION

Packaging: Reel (Terminal)
Tray (Header Assembly)
Bag (Receptacle Housing)
Mates With: Micro-Latch Connectors
Use With: 51065
Terminal Used: 50212/50372
Designed In: Millimeters
RoHS: Yes
Low Halogen : No

ELECTRICAL

Voltage (max.): 125V
Current (max.): 2.5A (AWG#22)
Contact Resistance on Crimped Portion (max.):
20 milliohms
Dielectric Withstanding Voltage: 500V AC (1 minute)
Insulation Resistance (min.): 1000 Megaohms

MECHANICAL

Crimp Terminal Insertion Force (max.): 9.8N
Crimp Terminal Retention Force (min.): 9.8N
Pin Retention Force (min.): 9.8N
Crimping Strength (min.): 39.2N (AWG#22)
Durability (max.): 30 Cycles

PHYSICAL

Housing:
Receptacle — PBT
Header — Polyamide
Contact: Phosphor Bronze
Header Pin: Brass
Plating (Receptacle Terminal):
Contact Area — Pre-Tin
Plating (Header Pin):
Contact Area — Tin
Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Pitch (mm)	Component	AWG Circuits	Rows	Color
50212	2	Female Receptacle Terminal	AWG24-30	-	-
50372		Female Receptacle Terminal	AWG22-26	-	-
51065		Receptacle Housing	2 to 15	Single	Natural
53253		Vertical Header			
53254		Right-Angle Header			

www.molex.com/link/micro-latch.html

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