

## INTRODUCTION

# molex® 2.00mm (.079") Pitch iGrid™ WTB Dual-Row System, with Internal Positive Lock

Molex's iGrid wire-to-board connector system offers a compact design and anti-tangle internal lock for applications such as gaming machines, appliances, industrial and other equipment requiring good mating retention.

The unique inner lock of iGrid prevents wire from getting tangled in the latch, compared to outer lock types where such damage can easily occur. The inner lock also provides space savings, an audible click and a robust design to withstand rugged handling.

The system is available in AWG #22-28 in both vertical and right angle designs, from 10-40 circuits.

### Specifications:

- Current: 2.0A
- Voltage: 250V
- Contact Resistance: 20 milliohms max.
- Dielectric Withstanding Voltage: 1000 AV
- Insulation Resistance: 1000 Megohms minimum
- Operating Temperature: -25 to +85°C
- Packaging: Headers — Tray  
Housing — Bag  
Terminals — Reel

### Series

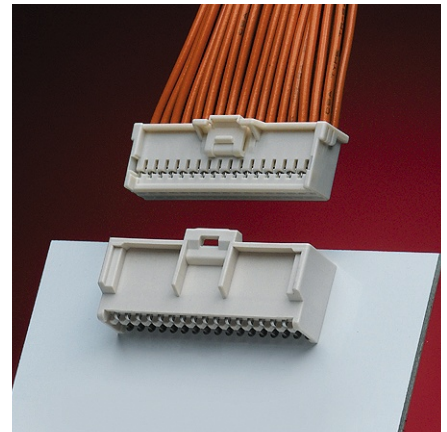
**501645, 501646,  
501647, 501648,  
501876**

### Features

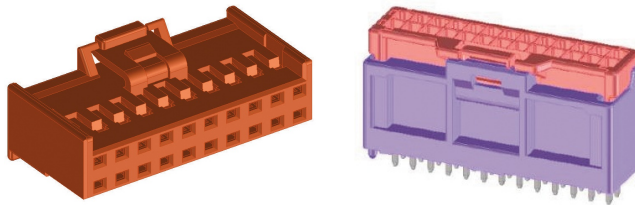
- Compact design
- Fully shrouded headers
- Polarization between housing and terminal
- Internal lock

### Benefits

- Saves PCB real estate; high density
- Withstand rugged handling and vibration
- Terminal always seats properly in housing
- Prevents wire tangling; space saving; audible click



Positive Inner Lock/Latch



## MARKETS AND APPLICATIONS

- Gaming machines
- HVAC/Vending machines/  
Microwave ovens
- Security systems
- GPS
- Medical/Fitness equipment



## ORDERING INFORMATION

### *Terminals and Housing*

Order No.	Description	Description	Circuit Sizes
501647-1000	Crimp Terminal	AWG #22-26	N/A
501648-1000	Crimp Terminal	AWG #26-28	N/A
501646-XX00	Crimp Housing		10-40, even circuit sizes

### *Headers*

Order No.	Description	Circuit Sizes
501645-XX20	Vertical Header	10-40, even circuit sizes
501876-XX40	Right Angle Header	10



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