

# HDMI Type-A Connectors

**molex**

Compact HDMI Type-A Connectors feature up to 48 Gbps bandwidth with 8K resolution display and various configurations, offering design flexibility to consumer, industrial and medical customers

## Features and Advantages

### Up to 48 Gbps bandwidth

Ideal for high-speed network applications

### Friction lock

Provides secure mating retention

### 10,000 mating cycles

Delivers high durability

### Mylar surface

Facilitates SMT mounting

### 0.75µm Gold plating thickness

Meets a variety of device application requirements

### Supports 8K resolution display

Delivers high-quality display

### Fully shielded design

Provides EMI/RFI protection

### Compatible with HDMI v1.4 and v2.1

Suits a variety of user-application requirements

### Flange option

Secures connection with screw lock

### Insert mold process design

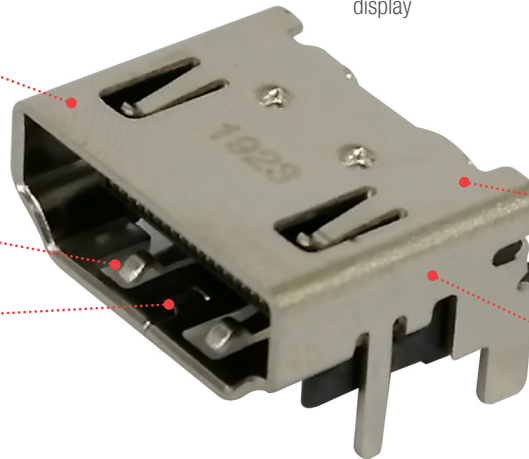
Offers stable terminal coplanarity

### Availability in different lead lengths

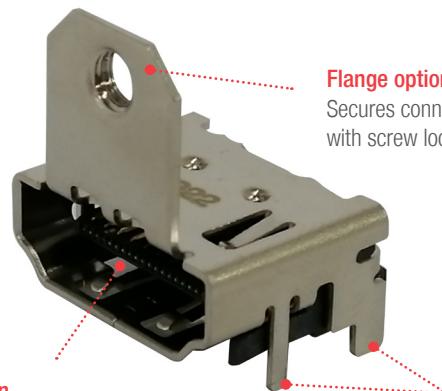
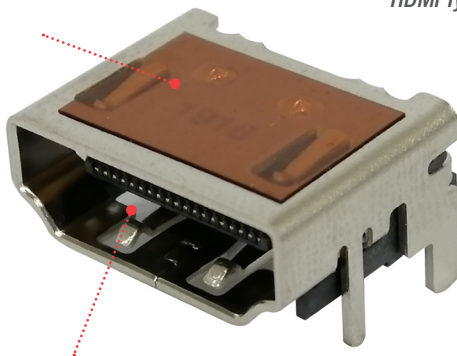
Makes it suitable for a variety of PCB thicknesses



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Insert mold process design  
Offers stable terminal coplanarity

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## Markets and Applications

### Consumer

- High-end televisions
- Meeting displays
- Graphic cards
- PCs/laptops
- Set-top box peripherals
- Gaming devices



PCs/Laptops



Medical Displays



Gaming Machines

### Industrial

- Security monitors
- Projectors
- Printers

### Medical

- Medical displays

### Connected Home

- Smart home systems

## Specifications

### REFERENCE INFORMATION

Packaging: Tape and reel, Tray  
UL File No.: E106764 (plastics)  
CSA File No.: N/A  
Mates With: N/A  
Terminal Used: Brass Alloy  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes  
Lead Free: Yes

### ELECTRICAL

Voltage (max.): 40V DC  
Current (max.): 0.8A  
Contact Resistance (max.):  
Contact: 30 milliohms  
Shell: 50 milliohms  
Dielectric Withstanding Voltage:  
Unmated: 500V AC  
Mated: 300V AC  
Insulation Resistance (min.):  
Unmated: 100 Megohms  
Mated: 10 Megohms (initial)

### MECHANICAL

Contact Retention to Housing: Insert molded type  
Insertion Force to PCB: Zero insertion force  
Mating Force (max.): 45N  
Unmating Force:  
9 to 40N (1 to 30 cycles)  
4 to 40N (after 10,000 cycles)  
Durability (min.): 10,000 cycles

### PHYSICAL

Housing: LCP, Black, UL94 V-0  
Contact: Copper Alloy  
Plating:  
Contact Area — Gold flash over 0.75micron min.  
Solder Tail Area — 0.05micron min. Gold (Au)  
Underplating — 1.27micron min. Nickel (Ni)  
Operating Temperature: -20 to +85°C

## Ordering Information

Series No.	Product	Design	Product Configuration	HDMI Standard / Bandwidth
<u>208658</u>	Receptacle	Standard	Top-Mount, Right-Angle	HDMI v2.1 / 48Gbps
<u>47659</u>			Vertical	HDMI v1.4 / 10.2Gbps

[www.molex.com/product/hdmi.html](http://www.molex.com/product/hdmi.html)

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