

HDMI Connector System – G45 Series

HIGH PERFORMANCE DIGITAL AUDIO/VIDEO INTERCONNECT SOLUTION

Amphenol HDMI supports standard or high-definition video, plus multi-channel digital audio on a connector. It transmits all ATSC HDTV standards and supports 8-channel digital audio.

With 18Gb/s of bandwidth, HDMI can accommodate the future enhancements and requirements of audio/video equipment.

- HDMI 2.0 compliant
- Compact design provides cost-effectiveness
- Insert molding for better retention force and coplanarity



FEATURES

- HDMI 2.0 compliant
- Insert molding for better retention force and coplanarity
- Mounting flange option
- Stainless Steel/SPCC shielding material
- RoHS compliant and lead-free

BENEFITS

- Accommodates 18Gb/s of bandwidth
- Backward compatible with earlier HDMI product
- Ensures reliable and stable connections
- Protects against ESD (Electrostatic discharge) and EMI (Electromagnetic Interference)
- Enhances reliability of connections
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, complies with UL 94V-0
- Contact: Copper alloy, Selective gold plated on contact area, 100u" min. tin plated on soldering tail, 50u" min. nickel under-plated overall
- Shell: Stainless Steel or Copper Alloy

MECHANICAL PERFORMANCE

- Durability:
 - Type A: 10,000 cycles at 100 ± 50 cycles per hour. Per EIA 364-09
 - Type C: 5,000 cycles at 100 ± 50 cycles per hour. Per EIA 364-09
- Insertion Force: 44.1 N {4.5kgf} max. Per EIA 364-13
- Withdrawal Force:
 - Type A: 9.8 N {1.0kgf} min/39.2N {4.0kgf} Max. Per EIA 364-13
 - Type C: 7 N Min / 25N max. Per EIA 364-13

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: Initial 10mΩ max. Per EIA 364-23
- Contact Current Rating: 0.5A min. Per EIA-364-70A
- Dielectric Withstanding Voltage: 500V AC. Per EIA 364-20C

ENVIRONMENTAL

- Humidity: 4 cycles between +25 to +85°C, Relative Humidity 80% to 95%. Per EIA 364-31B
- Thermal Shock: 10 cycles between -55°C to +85°C. Per EIA 364-32C

PACKAGING

- Tray/Tape and Reel available upon request

SPECIFICATION

- Amphenol Product Specification: PS-7551

TARGET MARKETS/APPLICATIONS



Datacom Equipments
Telecommunication



High End Computers
Servers



Test and Measurement Equipment

PART NUMBERS

Description	Position	Pitch	Termination	Part Numbers
HDMI Receptacle, Type A, Right Angle, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tape and Reel Package	19 Position	0.50mm	SMT (Through Hole for Shell Peg, Nickel)	HDMF1910DDXXTR1
HDMI Receptacle, Type A, Right Angle, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tape and Reel Package	19 Position	0.50mm	SMT (Through Hole for Shell Peg)	G45A19X2100B1EU
HDMI Receptacle, Type A, Right Angle, With Flange, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tape and Reel Package	19 Position	0.50mm	SMT (Through Hole for Shell Peg)	G45A19X2110B1EU
HDMI Receptacle, Type A, Upright, Selective Shell Plating Option Type, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tray package	19 Position	0.75mm	Dip (Forelock and Through Hole for Shell Peg)	G45A19X7X083HR
HDMI Receptacle, Type A, Upright, Nickel, With additional EMI shell solder Width 2.0mm with Mylar Type, Gold Flash Plating, High Temperature Thermo Plastic, Black, Tray Package	19 Position	0.75mm	Dip (Forelock and Through Hole for Shell Peg)	G45A19X72XHR
HDMI Receptacle, Type A, Vertical, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tape and Reel Package	19 Position	0.50mm	SMT (Through Hole for Shell Peg, Nickel)	G45A19X1100XHHR
Mini HDMI Receptacle, Type C, Right Angle, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tape and Reel Package	19 Position	0.40mm	SMT (Through Hole for Shell Peg, Nickel)	G45B19X2004YEU