

DisplayPort Connector System – G46 Series

HIGH PERFORMANCE DIGITAL AUDIO/VIDEO INTERCONNECT SOLUTION

Amphenol DisplayPort connector system is a scalable solution that transmits 1, 2 or 4 lanes of High-Definition video at 2.7Gb/s per lane up to a maximum of 10.8Gb/s. DisplayPort also allows flexible allocation of available bandwidth between audio and video.

- DisplayPort 1.4 compliant
- Protects against ESD (Electrostatic discharge) and EMI (Electromagnetic Interference)
- Self-latching connector
- Fully backward compatible with earlier HDMI
- Miniaturized option available: Mini DisplayPort



TARGET MARKETS



FEATURES

- DisplayPort 1.4 compliant
- Self-latching connector
- Fully shielded metal shell
- RoHS compliant and Halogen-free

BENEFITS

- Performs at 2.7Gb/s per lane backward compatible with earlier DisplayPort product
- Ensures quick and stable connections
- Protects against ESD and EMI
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

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

MECHANICAL PERFORMANCE

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

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: Excluding Conductor Resistance Initial 10mΩ max. Per EIA 364-23
- Shell: Initial Contact Resistance 30mΩ max. Per EIA 364-23
- Contact Current Rating: 0.5A min. Per EIA-364-70
- Dielectric Withstanding Voltage: 500V AC(RMS). Per EIA 364-20 Method 302

ENVIRONMENTAL

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

PACKAGING

- Tray/Tube/Tape and Reel available upon request

SPECIFICATION

- Amphenol Product Specification: PS-7394

TARGET MARKETS/APPLICATIONS



Datacommunication equipment
Telecommunications



High End Computers
Servers
Test Card and Card Extenders

PART NUMBERS

Description	Orientation	Termination	Position	Part Numbers
DisplayPort, Receptacle, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tray Package	Right Angle	SMT (Forelock and Through Hole for Shell Peg) Type	20 Position	G46A20X2101WEU
DisplayPort, Receptacle, Selective Gold Plating Option, High Temperature Thermo Plastic, Black, Tray Package	Right Angle	DIP (Forelock and Through Hole for Shell Peg) Type	20 Position	G46A20X4100WEU
Mini DisplayPort, Receptacle, Selective DIP Tail Length and Gold Plating Option, High Temperature Thermo Plastic, Black, Selective Package Option	Right Angle	SMT+Dip (Through Hole for Shell Peg) Type	20 Position	G46M20X3201XXWEU
Mini DisplayPort, Receptacle, High Rise, Selective DIP Tail Length and Gold Plating Option, High Temperature Thermo Plastic, Black, Selective Package Option	Right Angle	SMT+Dip (Through Hole for Shell Peg) Type	20 Position	G46M2001X2XEU