

FEATURES AND SPECIFICATIONS



0.50mm (.020") Pitch DisplayPort* Interconnect Solutions

Molex offers the total solution for the external DisplayPort* Interconnect System

Molex has developed the external DisplayPort* Interconnect System for the PC and notebook markets. The Molex product offering includes PCB receptacles, plugs for cable termination, complete cable assemblies, and adapters which convert between DisplayPort and legacy connectors. The receptacle is designed for use on the device side and the plug will be connected to the cable assembly. Finished cable assemblies are available in both latching and non-latching versions in lengths of 2m, 3m and 15m. This new connector can deliver high-definition digital video and audio to the display device via the same cable thus reduces cost. Plus the plug-and-play feature makes it user-friendly. This standard allows for streaming video eliminating signal translation between source and display devices. Such direct connection capability simplifies display product design and reduces cost. Industry objectives achieved for DisplayPort include:

- Provide a small, user-friendly external digital display connection providing a viable alternative to the analog VGA.
- Unify external and internal display interfaces.
- Provide scalable performance in terms of resolution, color depth, and refresh rate over fewer wires to support emerging display needs. DisplayPort systems can be designed for use with 1, 2, or 4 signal lanes each providing 2.5Gbps in high speed mode for a maximum speed of 10.8Gbps with all 4 lanes enabled. Audio capability can also be deployed in this interconnect system.
- Accelerate deployment of protected digital outputs on PCs to broadly support authorized viewing of protected content.
- Molex is in development of a mini DisplayPort due for release in early 2009 which will provide a smaller interface for use on Mobile Video Devices.

For more information about the DisplayPort Interconnect solution family, please visit: <http://www.molex.com/product/displayport.html>

47271

47272, 105019, 105020

74766

68783

Plug Kit

Receptacles

Cable Adapters

Cable Assemblies



DisplayPort Receptacles



Cable Adapters



Cable Assembly

*DisplayPort™ is a trademark of Video Electronics Standards Association (VESA)

Features

- Plastic locating peg
- Detent locks
- Latches
- Metal shielding on all sides
- Solder tab
- Small footprint
- Polarized mating geometric

Benefits

- Secure seating on PCB during soldering
- Prevents unintended disconnections
- Additional security for long cable latching
- Superior shielding against EMI
- Secure PCB retention which withstands lateral forces
- Less PCB real estate
- Prevents mis-mating

SPECIFICATIONS



0.50mm (.020") Pitch DisplayPort* Interconnect Solutions

Connector

Reference Information

Packaging: Embossed Tape on Reel

UL File No.: TBD

CSA File No.: TBD

Mates With: DisplayPort Plug (series 47271)

Designed In: Millimeters

Electrical

Voltage (max.): 40V AC

Current (max.): 0.500A

Mechanical

Durability (min.): 10,000 cycles

Physical

Housing: High Temperature Thermal Plastic, Black, GF, UL 94V-0

Contact: Tin-Bismuth

PCB Thickness: 1.60mm (0.063")

Operating Temperature: -20°C to +85°C

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Plug Kit

Receptacles

Cable Adapters

Cable Assemblies

Adapter

Reference Information

Packaging: Bag

UL File No.: TBD

CSA File No.: TBD

Mates With:

Series 47272, 105019, 105020 (DP Connectors)

Series 74320 (DVI Connectors)

Series 47151, 47266, 47313, 47408,

47630, 500254 (HDMI connectors)

Designed In: Millimeters

Electrical

Impedance: 100 ohms

Shield Type: Full Shield

Shielded: Yes

Physical

Contact: Copper (Cu) Alloy

Plating:

Contact Area — Nickel (Ni)

Solder Tail Area — Tin (Sn)

Cable

Reference Information

Packaging: Bag

UL File No.: TBD

CSA File No.: TBD

Mates With: DisplayPort connector

Use With: DisplayPort connector

Designed In: Millimeters

Electrical

Voltage (max.): 40V

Current (max.): 0.500A

Impedance: 100 ohms

Shielded: Yes

Physical

Housing: High Temperature Thermoplastic, Black

Plating:

Contact Area — Gold (Au)

Solder Tail Area — Tin (Sn)

Underplating — Nickel (Ni)

MARKETS AND APPLICATIONS

- Personal Computer (PC)
- External display interconnect
 - Projector
 - TV display
- DVD player
- Computer monitor
- DVR





**0.50mm (.020") Pitch
DisplayPort* Interconnect Solutions**

47271	Plug Kit
47272, 105019, 105020	Receptacles
74766	Cable Adapters
68783	Cable Assemblies

Description	Series	Type
Right Angle Receptacles	105019	SMT, Reverse Type
	105020	Through Hole
	47272	SMT, with Latch Holes
Plug	47271	N.A.
Cable adapters	74766	
Cable assemblies	68783	

Please refer to Molex.com for detailed information.



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