

Displayport 2.1 Connector

DISPLAYPORT SUPER HIGH RESOLUTION VIDEO/AUDIO INTERCONNECT SOLUTION

Amphenol Displayport is a scalable system capable of delivering 1, 2, or 4 lanes of high-definition video at a maximum of 20Gb/s per lane. Displayport also supports 16K superior resolution with 80Gb/s bandwidth.

- Compliant to DP 2.1 specification backward compatible with earlier DP version
- Suitable for DP40, 8K cable, and high interchangeable DP80 market cable
- 16K Resolution (15360x8640) @ 60Hz; Superior signal integrity performance
- Good shielding of ESD and EMI, as well as self-latching feature
- Enhanced Full Size DP, and Type C multiple display interface

FEATURES

- Compliant to DP 2.1 specification
- Passive self-latching
- Fully shielded metal shell to reduce EMI and RFI
- RoHS and halogen-free compliance
- High Interchangeable DP80 market cable



TARGET MARKETS



BENEFITS

- 80Gb/s fully backward compatible with earlier Displayport product
- Robust latch connection
- Excellent shielding of ESD and EMI
- Meets environmental, health, and safety requirements
- Superior signal integrity performance

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, complies with UL 94V-0, Optional color
- Contact: Copper Alloy, Selective Gold plated on contact area, 100μ min. Tin plated on soldering tail, 50μin min. Nickel under-plated overall
- Shell: Stainless Steel

MECHANICAL PERFORMANCE

- Durability: 10,000 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

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: 500VAC(RMS). Per EIA 364-20 Method 302
- Insulation Resistance: 100MΩ min.

PACKAGING

- Tray / Tape and Reel

APPROVALS & CERTIFICATION

- VESA

ENVIRONMENTAL

- Thermal shock:
 - -55°C ~ 30 minute.
 - +85°C ~ 30 minute, 10 cycles, EIA 364-32
- Humidity: 60°C, 90~95%RH, 240 hours, EIA 364-31
- Heat Resistance: 85°C, 96 hours, EIA 364-17
- Cold Resistance: -40°C, 96 hours, EIA 364-17
- Solderability: 95% min. solder coverage, EIA 364-52
- Resistance to Soldering Heat: Peak temperature: 260°C max., 10 seconds max.

SPECIFICATIONS

- Amphenol Product Specification: SFSDP001
- Test Report: R09007-23

TARGET MARKETS/APPLICATIONS



Telecom/Datacom Equipment



Test Card and Card Extenders
High End Computers
Servers



Test and Measurement Equipment

PART NUMBERS

Part Description	Part Numbers
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 30µin Gold Plating Option, High Temperature Thermoplastic, Black, with Flange, T&R Package	DPF20102711TR
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 15µin Gold Plating Option, High Temperature Thermoplastic, Black, with Flange, T&R Package	DPF20102721TR
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 3µin Gold Plating Option, High Temperature Thermoplastic, Black, with Flange, T&R Package	DPF20102741TR
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 30µin Gold Plating Option, High Temperature Thermoplastic, Black, T&R Package	DPF20102811TR
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 15µin Gold Plating Option, High Temperature Thermoplastic, Black, T&R Package	DPF20102821TR
Enhanced Full Size DP, 20 Position, Receptacle, Right Angle, SMT, Selective 3µin Gold Plating Option, High Temperature Thermoplastic, Black, T&R Package	DPF20102841TR
Enhanced Full Size DP, 20 Position, Cable Plug Selective 30µin Gold Plating Option, High Temperature Thermoplastic, Black, Tray Package	G46CA204210L1EU
Enhanced Full Size DP, 20 Position, Cable Plug Selective 15µin Gold Plating Option, High Temperature Thermoplastic, Black, Tray Package	G46CA201210L1EU
Enhanced Full Size DP, 20 Position, Cable Plug, Gold Flash Plating Option, High Temperature Thermoplastic, Black, Tray Package	G46CA200210L1EU
DP2.1 DP80 Enhanced DP Module, Length 1M	GTR040420111C1EU
DP2.1 DP80 Enhanced DP Module, Length 1.6M	GTR040420110C1EU