

50cm DisplayPort 2.1 Cable, VESA Certified DP54 DisplayPort Cable, Uncompressed 8K 60Hz, 10K 60Hz/8K 144Hz/4K 240Hz w/DSC 1.2a, DP 2.1 Monitor Cord

Product ID: DP21V-50C-DP54-CABLE



Connect an 8K/4K UHD DisplayPort monitor to a host computer or MST hub, using this VESA-Certified DisplayPort 2.1 DP54 Cable. This cable facilitates high bandwidth video and multi-channel audio and is ideal for 8K workstations, high performance GPUs, and dedicated AV applications including media production and content creation.

For seamless operation between DisplayPort-enabled devices, the DisplayPort 2.1 Cable is VESA Certified for guaranteed DP 2.1 and backward compatibility (DP 2.0/1.4/1.2). It supports G-Sync and FreeSync, enhancing Variable Refresh Rate (VRR) performance for optimal picture quality between high-capacity GPUs and supported displays.

This DisplayPort cable features a flexible TPE outer jacket that is tested to withstand 600 bending cycles at +/-60 degrees, and routes easily around corners and desk edges. Robust strain reliefs enable convenient positioning of the cable, and latching nickel-plated DP connectors attach securely to prevent accidental disconnection. The connectors are rated to operate beyond 10,000 insertions.

This DP54 DisplayPort cable supports the following DP 2.1 features:

- UHBR13.5 supports high refresh rates including uncompressed 5K 120Hz and 4K 144Hz
- DSC-compressed video up to 16K 30Hz / 10K 60Hz / 4K 240Hz 4:4:4 8-bit
- Uncompressed video resolutions up to 10K 30Hz / 8K 60Hz / 4K 144Hz 4:4:4 8-bit
- High-Bandwidth Digital Content Protection (HDCP) 2.3 for a secure connection between source and display
- High Dynamic Range 10 (HDR10) for higher contrast ratio and vibrant picture quality
- Display Stream Compression (DSC) 1.2a for maximum resolution output
- Multi-Stream Transport (MST) for daisy-chaining multiple monitors

- 32 Uncompressed Digital Audio Channels
- Backward compatible with previous DP versions

This DP 2.1 Cable is constructed with braided aluminum mylar shielding to minimize EMI for clear, consistent audio/video output and long-term reliable performance.

Certifications, Reports and Compatibility



Applications

- Facilitate DisplayPort 2.1 performance with backward compatibility
- Connect a high performance GPU to an 8K 60Hz UHD display

Features

- **Deliver Uncompressed 8K 60Hz Video**: Connect this DP 2.1 (DP54) Cable to an ultra-high resolution display for vivid, uncompressed 8K 60Hz/4K 144Hz video with HDR support and HDCP 2.3; Enable immersive sound quality with 32-channel and 7.1 surround audio
- **Certified for Guaranteed Performance**: Trust this VESA-Certified DP 2.1 cable for guaranteed DP54 (54Gbps) bandwidth with UHBR13.5 link rate support, ensuring full 8K 60Hz performance and up to 16K 30Hz / 10K 60Hz with Display Stream Compression (DSC 1.2a)
- **Identify Specs Instantly**: DP2.1 (DP54) specs printed on each Quick ID connector remove guesswork and confirm feature support at-a-glance; The eco-friendly TPE jacket is flexible and durable, designed to withstand tight bends and is RoHS-compliant
- **For High-Resolution Workflows**: Optimize high performance GPUs and AV workstations at UHD resolutions beyond 4K; Achieve sharp 8K picture at 10-bit and 8-bit 4:4:4 chroma; Works with USB-C to DP adapters for laptops such as Apple M-series Pro/Max MacBooks
- **The IT Pro's Choice**: Our digital display cables are rigorously lab-tested for signal integrity, durability, and compatibility across HDMI, DisplayPort, USB-C, and legacy interfaces; Backed by free lifetime 24/5 multi-lingual technical assistance

Hardware

Warranty	Lifetime
Active or Passive Adapter	Passive
Connector Plating	Nickel

Cable Jacket Material	TPE - Thermoplastic Elastomers
Cable Shield Material	Aluminum-Mylar Foil with Braid
Fire Rating	VW-1
Industry Standards	DisplayPort 2.1

Performance

Video Revision	DisplayPort 2.1
Maximum Data Transfer Rate	54Gbps
Maximum Digital Resolutions	Uncompressed (8-bit 4:4:4) Up to 10K 30Hz / 8K 60Hz / 5K 120Hz / 4K 144Hz Uncompressed (10-bit 4:4:4) Up to 8K 30Hz / 5K 60Hz / 4K 144Hz With DSC 1.2a , Up to 16K 30Hz / 10K 60Hz / 8K 144Hz / 5K 240Hz / 4K 240Hz
Audio Specifications	DisplayPort - 32 Channel Audio

Connector(s)

Connector A	1 - DisplayPort
Connector B	1 - DisplayPort

Environmental

Operating Temperature	0C to 45C (32F to 113F)
Storage Temperature	-20C to 70C (-4F to 158F)
Humidity	10%~85% RH

Physical Characteristics

Color	Black
Connector Style	Straight
Material	ABS
Cable Length	1.6 ft [0.5 m]

Cable OD	0.3 in [7 mm]
Product Length	20.6 in [52.2 cm]
Product Width	0.9 in [2.2 cm]
Product Height	0.5 in [13.4 mm]
Weight of Product	1.7 oz [48 g]

Packaging Information

Package Length	6.7 in [17.0 cm]
Package Width	5.6 in [14.2 cm]
Package Height	1.2 in [3.0 cm]
Shipping (Package) Weight	4.3 oz [121.0 g]

What's in the Box

Included in Package	1 - 50cm DisplayPort 2.1 Cable
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**Product appearance and specifications are subject to change without notice.*