



### Description:

DP to DP AOC is a new generation of advanced Active Optical Cables (AOC) that employ cutting edge technology to deliver unprecedented resolution, performance and value. Support DisplayPort 1.4 and provide a wide range of features in a compact, lightweight form-factor. They are fully HDCP 1.4 / 2.2 compliant and support signals with data rates up to 32.4 Gbps (HBR3). These features enable this cable to support very high resolution applications at 4K / 120Hz (4 :4 :4 ) with cable lengths up to 100 meters and 8K / 60Hz (4 :4 :4 ) up to 100 meters.

### Key Features:

- Support 8K@60Hz, HBR3, HDCP 1.4 / 2.2; very good compatibility
- Detachable connector for passing through conduit
- Support DP1.4 standard, bandwidth can reach 8.1 Gbps per channel
- Support length up to 100m max, custom length is available
- Hybrid fiber and copper, more slim and light
- OD 4.8 mm, very flexible
- Low RFI / EMI profile for sensitive applications
- External power supply not required
- All cables are of CMP (Plenum-rated) jacket

### Ordering Information:

<b>5m length</b>	MS-DP-05
<b>10m length</b>	MS-DP-10
<b>15m length</b>	MS-DP-15
<b>30m length</b>	MS-DP-30

Custom lengths available on request

### Technical Specifications:

Performance	
Standards Compliance	DisplayPort 1.4 / HBR3, HDCP 1.4 / 2.2
Maximum Pixel Clock Frequency	810 MHz
Maximum Video Bit Rate	Supports up to 8.1 Gbps per lane, 32.4 Gbps Total
Maximum Color Depth	48 bits
Maximum Supported Resolutions	8K@60Hz
Connections	
DisplayPort Input / Output	20-pin DisplayPort
Power	No external power supply required
AUX Channel Support	
AUX Channel Communications	Supports bidirectional communications for EDID, HDCP, Link Training, etc.
HDCP Support	HDCP 1.4 and HDCP 2.2
Optical	
Optical Technology	4x Discrete Optical Channels, 10GHz, 850 nm
Optical Transmitter	Tx Module: 4x 850 nm Multi-mode VCSELs
Optical Receiver	Rx Module: 4x GaAs PIN Photo Diodes
Cable	
Fiber Cable Type	Hybrid cable 4x fiber and 8x copper wire
Cable Jacket	CMP (Plenum-rated) jacket
Maximum Cable Length	100 meters
Mechanical - Cable	
Product Weight	Varies with length
Maximum Tensile Load	300N
Minimum Bend Radius	48mm
Cable Outside Diameter (WxH)	4.8mm
Environmental	
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +85°C
Operating/Storage Humidity	5% to 85% (non-condensing)
Power Requirements	
Power Source	Powered from DisplayPort source device
Power Consumption	<0.5 watt each end