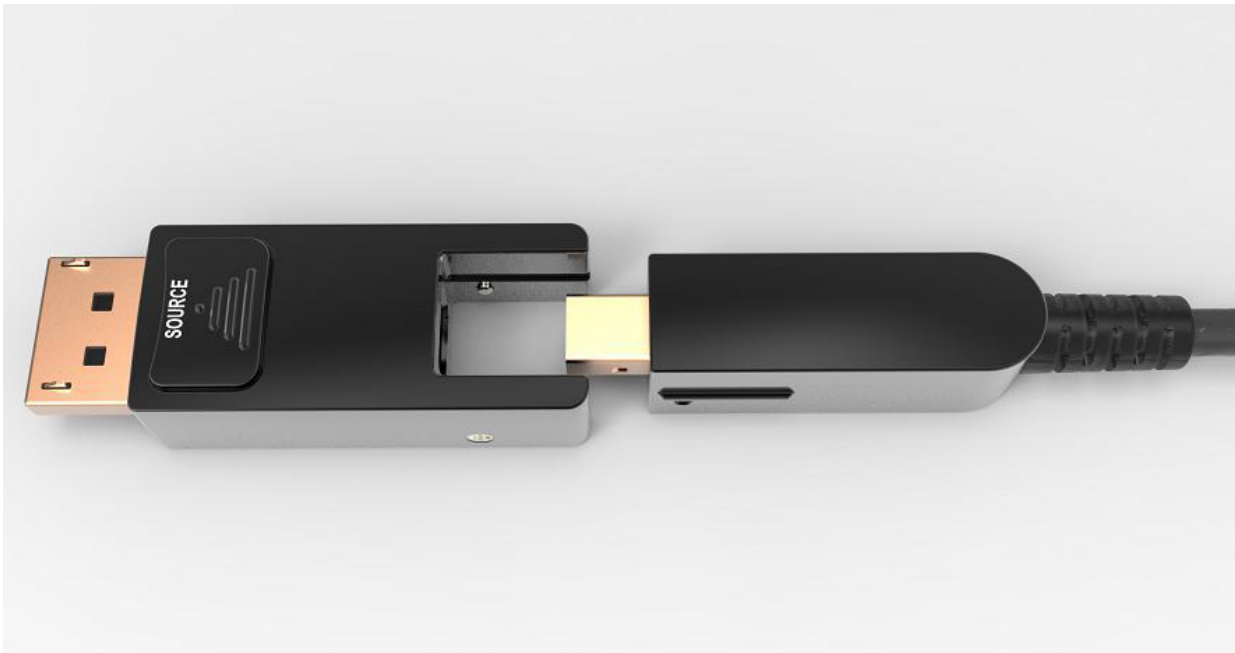


DP 1.4 Detachable Active Fiber Cable



Description

ELII DP 1.4 AOC is a new generation of advanced Active Optical Cables (AOC) that employ cutting edge technology to deliver unprecedented resolution, performance and value. ELII cables 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 ELII cables 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

1. Support 8K@60Hz , Supports HBR3, HDCP 1.4 / 2.2; very good compatibility;
2. Support DP1.4 standard, bandwidth can reach 8.1 Gbps per chanel ;
3. Support length up to 100m max , length custom is available ;
4. Hybrid fiber and copper, much more slim and light ;
5. OD 4.8 mm, very flexible;
6. Low RFI / EMI profile for sensitive applications;
7. External power supply is not request ;

Specifications

1. 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	48bits
Maximum Supported Resolutions	8K@ 60Hz

2. Connections

DisplayPort Input / Output	20-pin DisplayPort
Power	No external power supply is required.

3. AUX Channel Support

AUX Channel Communications	Supports bidirectional communications for EDID, HDCP, Link Training, etc.
HDCP Support	HDCP 1.4 and HDCP 2.2

4. Optical

Optical Technology	4x Discrete Optical Channels, 10 GHz, 850 nm
Optical Transmitter	Tx Module:4x 850 nm Multi-mode VCSELs
Optical Receiver	Rx Module:4x GaAs PIN Photo Diodes

5. Cable

Fiber Cable Type	Hybrid cable 4x fiber and 8x copper wire
Cable Jacket	PVC, Black
Maximum Cable Length	100 meters

6. Mechanical - Cable

Product Weight	Varies with length
Maximum Tensile Load	300N
Minimum Bend Radius	48mm
Cable Outside Diameter (W x H)	4.8mm

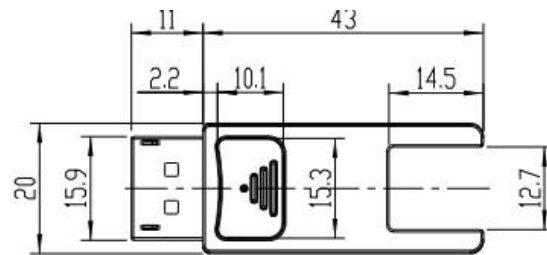
7. Environmental

Operating Temperature	0°C to + 50°C
Storage Temperature	-20°C to + 85°C
Operating / Storage Humidity	5% to 85% (non-condensing)

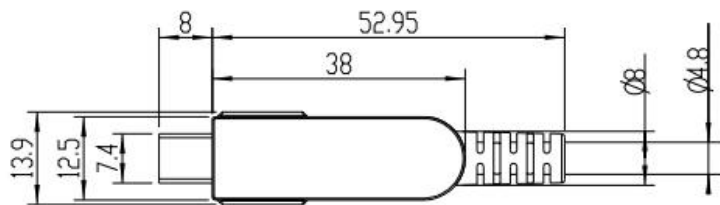
8. Power Requirements

Power Source	Powered from DisplayPort source device
Power Consumption	< 0.5 watt each end

Structure

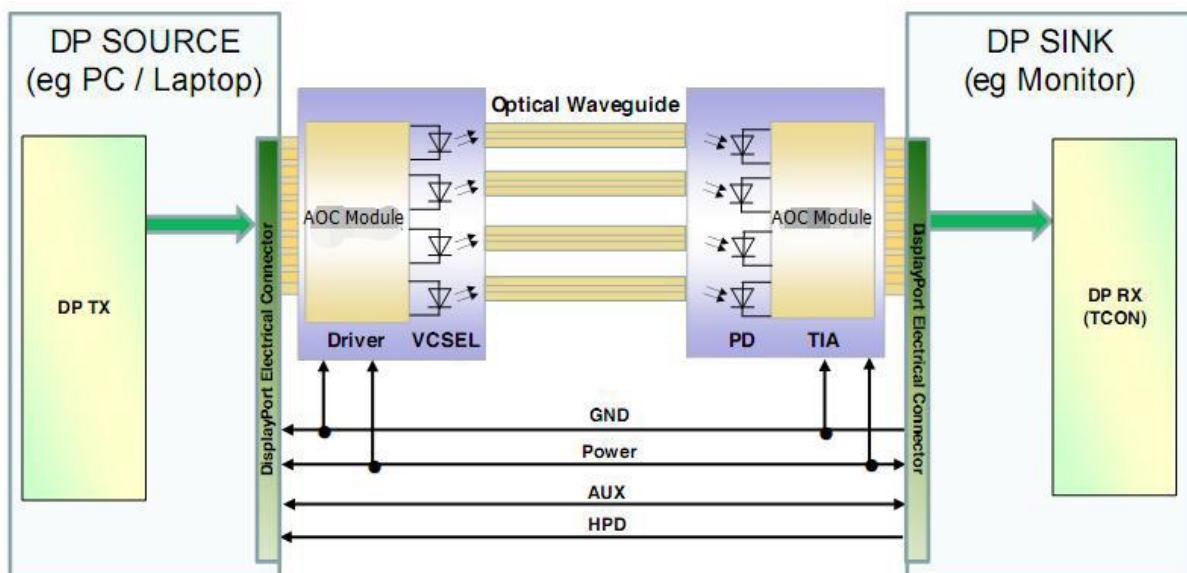


Mini DP to DP Adapter



Mini DP

DP 1.2 AOC Drawing



Applications

1. Digital Signage , Security systems ,Home Theater ;
2. Conference Room Video Equipment;
3. LED signboards in streets and in stadiums ; TV Broadcast Station;
4. Medical Imaging Equipment ,Airplane On-board Video System;
5. Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer .