



PERFORMANCE SERIES

Premium Reliability.

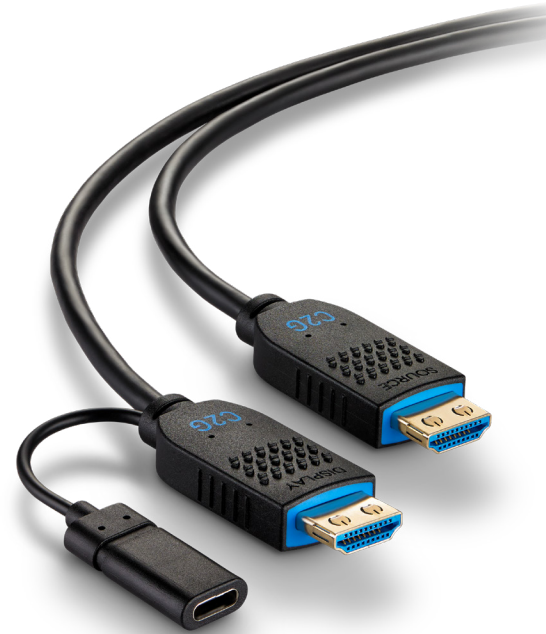
HIGH SPEED HDMI® ACTIVE OPTICAL CABLE (AOC) – 4K 60HZ PLENUM RATED

C2G Performance Series High Speed HDMI Active Optical Cables (AOC) are the perfect solution for extending HDMI signals in classrooms, meeting spaces, and other commercial applications requiring high speed HDMI features and video resolutions up to 4K (4096 x 2160) at 60Hz.

The cable's fiber strand construction reduces the risk of EMI/RFI, making performance stable when used in high interference environments such as data centers, surgical theaters, or manufacturing facilities where high resolution and consistent displays are critical.

We have engineered our HDMI AOCs with quality components to give a robust design and enhanced performance, ideal for installation needs that are beyond the length limitations of standard HDMI copper cabling. Adding a thicker wire gauge and Kevlar®, we improved the cable's pull strength and overall structural integrity. The shielding in these cables optimizes the EMC, preventing unwanted electromagnetic interference and electrostatic discharges, contributing to the long-term reliability of the connected system. The cable jacket meets the fire code requirements for installation within plenum spaces, like a dropped ceiling. The AOC draws power from the HDMI source device. If additional power is needed, an integrated USB-C power pigtail is included on the display end to offer an external power option to maximize compatibility. The use of HDMI 2.1 grade components in the cable confidently improves the operation of HDMI 2.0 applications —enhancing video experiences with higher resolutions, increased speeds, and sharper images at distances far beyond traditional HDMI cabling.

Extensive compatibility and verification tests have been done with various source devices and displays to validate that these HDMI AOCs will withstand real-world applications and scenarios. HDMI AOCs can only run in one direction. The connectors have molded labeling for source and display, so there is no confusion with this directional cable. The source connector end even has a tag on the cable as an extra reminder.





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FEATURES

- Commercial grade connectors that feature compact overmolding for high-density environments
- Supports all HDMI 2.0 features including resolutions up to 4K (4096 x 2160) at 60Hz, which means higher quality video for viewing your screen content
- Plenum-rated jacket, so you can safely run the cable inside of a wall and have a clutter free, clean look
- Integrated finger grips on the connectors for easy insertion and removal
- Gripping connector shell has 2x greater port retention to keep your devices connected
- Gold plated connectors for increased electrical conductivity and enhanced durability
- Directional cable with source connector labeled and tagged to easily differentiate from the labeled display connector

Note: Use a USB-C to USB-A cable for additional power. Connect the USB-C to USB-A cable to the integrated USB-C power pigtail on the display end of the cable and power source. We recommend using C2G parts 28871 and 22335.

PERFORMANCE SERIES HIGH SPEED HDMI® ACTIVE OPTICAL CABLE (AOC)	
C2G41480	15ft (4.5m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41481	20ft (6.1m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41482	25ft (7.6m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41483	35ft (10.7m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41484	50ft (15.2m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41485	75ft (22.8m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41486	100ft (30.5m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41487	125ft (38.1m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41488	150ft (45.7m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41489	200ft (61m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41490	250ft (76.2m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated
C2G41491	300ft (91.4m) C2G Performance Series High Speed HDMI® Active Optical Cable (AOC) - 4K 60Hz Plenum Rated



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ELECTRICAL SPECIFICATIONS	Supply Voltage	5V
	Signal Bandwidth	18Gbps @4K 60Hz, 4:4:4
	HDMI Connector	
	Voltage Rating	40V AC
	Withstanding Voltage	300 V DC/0.01s
	Current	0.5A Min
	Insulation Resistance	10MegaOhms Min
	Contact Resistance	30 Milliohms Max
	USB-C Pigtail Connector	
	Voltage Rating	20V Max
	Withstanding Voltage	100V AC
	Current	5A Min for VBUS
	Insulation Resistance	100 Megaohms Min
	Contact Resistance	40 Milliohms Max
	PHYSICAL CHARACTERISTICS	Cable Bend Radius
C2G41480-5 ONLY		Min Bend Radius (No Load): 15mm, Min Bend Radius (Under Load): 70mm
C2G41486-91 ONLY		Min Bend Radius (No Load): 20mm, Min Bend Radius (Under Load): 75mm
Connector 1: HDMI Male/Main Cable, Shell: Gold Flash Plating Over All, Housing: Thermoplastic, Blue		
Cable Tensile Strength		Short Term Load: 500N for 10 minutes; Long Term Load: 250N for 30 Minutes
HDMI Insertion Force		10kgf Max; Withdraw Force: 4kgf Min.
Connector 2: USB-C Female/ Power Pigtail Adapter, Contact: Gold Plated, Nickel Plating Over All, Housing: LCP, Black		
Outer Diameter		2.4mm ± 0.15mm
Pigtail Tensile Strength		6kgf; Pull force between the HDMI Overmold & Pigtail: 5kgf, Pull Force Between HDMI Overmold and USB Overmold: 5kgf
USB-C insertion Force		5-20N; Withdraw Force: 8-20N
Outer Jacket		PVC, .40mm Thickness, Black, Rating: CMP
Operating Temperature		0°C - 50°C; 75% Relative Humidity, Non-Condensing
Storage Temperature		-40°C - 100°C; 75% Relative Humidity, Non-Condensing
Cable Marking		High Speed HDMI Cable E468039 (UL) CMP c(UL) 75°C
Cable Tensile Strength		10kgf Max; Withdraw Force: 4kgf Min.
Products are CE Marked and conforms to 2011/65/EU ROHS2		

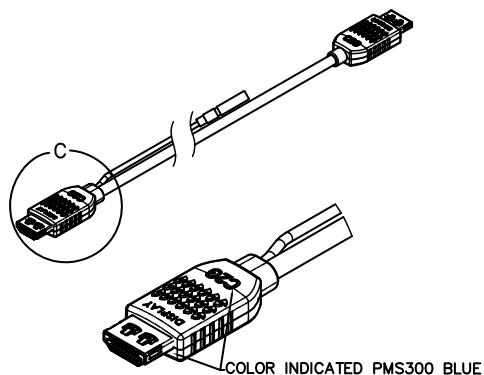


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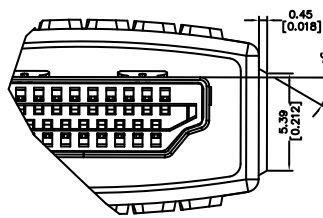
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TECHNICAL DRAWING

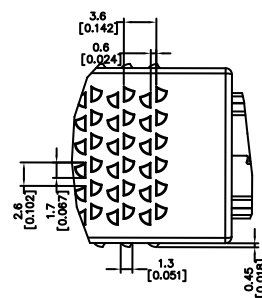


DETAIL C
SCALE 2: 1.5

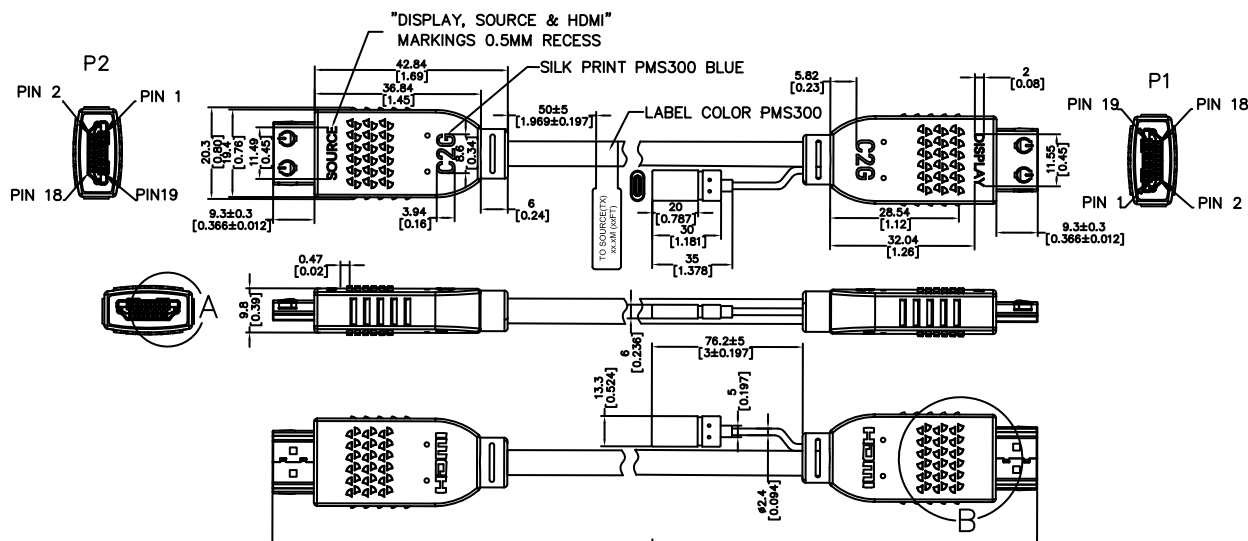


DETAIL A
SCALE 8: 1

1. Chipset Information:
VCSEL DRIVER IC: RT183
TRANSIMPEDANCE AMPLIFIER: RT182
2. Firmware Information : N/A
(NO firmware required for this product)



DETAIL B
SCALE 4: 1



LEGRAND | AV COMMERCIAL BRANDS

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SIMPLIFIED CONNECTIVITY

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