



DATA SHEET

USB-A to USB-A Extension

C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated

OVERVIEW

C2G Performance Series USB Active Optical Cables (AOC) are an innovatively designed solution for video conferencing and extending USB signals in corporate and educational spaces like meeting spaces, classrooms, and other commercial applications requiring USB data transfer speeds up to 10Gbps. The cable's fiber strand construction reduces the risk of EMI/RFI, providing stable performance when used in high interference environments ensuring reliable data communication.

We have designed and engineered our USB AOCs with quality components to give a robust, durable design and fast data transfers, ideal for installation needs that are beyond the length limitations of standard, passive USB cabling. The cable jacket meets the fire code requirements for installation within plenum spaces, like a dropped ceiling.

USB AOCs can only run in one direction. This USB AOC cable features a unidirectional design which requires the cable to be installed in a specific direction. Most USB devices can be powered by the connected source device and may not require external power. If additional power is needed, an integrated USB-C power pigtail is included on the USB-A end of the cable—ideal for high power commercial USB cameras and devices.

Our engineers have completed extensive compatibility and verification tests with various source computers and devices to validate that these USB AOCs will withstand real-world applications and scenarios.

With these being a part of the C2G Performance Series, they include:

- Commercial grade connectors that feature compact overmolding for high-density environments
- Integrated finger grips on the top, bottom, and sides for easy insertion and removal

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.

The SanDisk USB3.2 Gen 2x2 SSD has not been found to perform well with this extension cable.

We recommend using a USB-IF certified passive cable for best performance.

ITEM DESCRIPTION

C2G30077	15ft (4.5m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30078	25ft (7.6m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30079	35ft (10.7m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30080	50ft (15.2m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30081	75ft (22.8m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30082	100ft (30.5m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated
C2G30083	125ft (38.1m) C2G Performance Series USB-A Male to USB-A Female Active Optical Extension Cable (AOC) - 3.2 Gen 2 (10Gbps) Plenum Rated

FEATURES

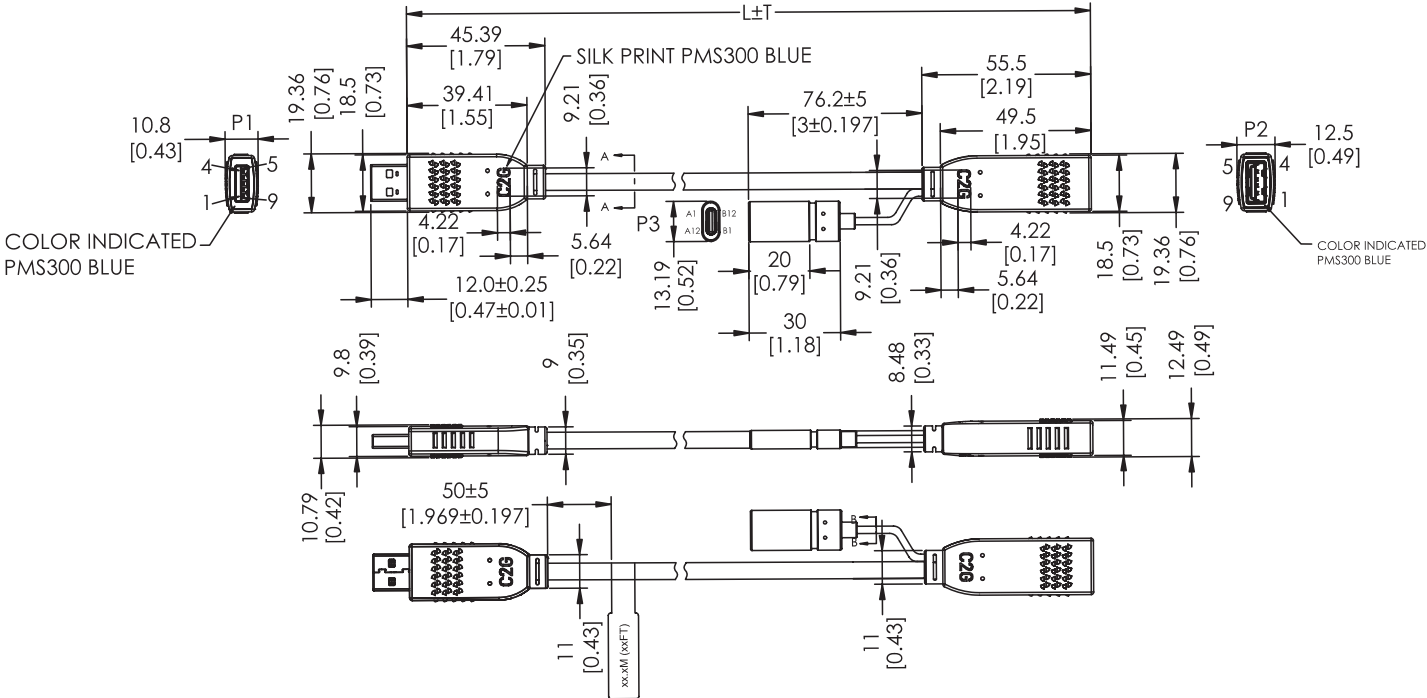
- Supports all USB 3.2 Gen 2 features including data transfer speeds up to 10Gbps and power delivery up to 5W, far beyond passive USB length limitations
- Backward compatible with USB 3.1, 3.0 and 2.0, so it will work with various USB devices
- Plenum CMP rated jacket, so you can safely run the cable inside plenum spaces, meeting the requirements for an installation in a commercial space
- Integrated finger grips on the connectors for easy insertion and removal

ELECTRICAL SPECIFICATIONS

- Supply Voltage: 5V
- Signal Bandwidth (Recommended to use a USB-IF certified passive cable for best performance):
 - USB 3.2 Gen 2, 10 Gbps
 - USB 2.0, 480 Mbps
- Operation Current: 100MA Type @ 5V
- Power Consumption: 500MW Type @ 5V
- **USB-A Male Connector:**
 - Withstanding Voltage: 100V AC
 - Insulation Resistance: 100MΩ Min
 - Contact Resistance: 30mΩ Max for Pin1/ Pin4; 50mΩ for other Contacts
 - Contact Current Rating: 1.8A for Pin 1/ Pin4; 0.25A for other Contacts
- **USB- A Female Connector:**
 - Current: 1.5A Max
 - Withstanding Voltage: 500V AC
 - Insulation Resistance: 1000MΩ Min
- **USB-C Pigtail Connector:**
 - Cable Jacket: PVC, Black, .40mm Thickness
 - Voltage: 20V Max
 - Withstanding Voltage: 20V Max
 - Current: 5A for VBUS
 - Insulation Resistance: 100MΩ Min
 - Contact Current Rating: 1.25A for Ground Power; 0.25A for other Contacts

PHYSICAL CHARACTERISTICS

- Cable Bend Radius: Min Bend Radius (No Load): 20mm, Min Bend Radius (Under Load): 55mm
- **Connector 1:** USB-A Male, Shell: Nickel Plating Over All, Housing: Blue
 - USB-A Male Insertion Force: 35N Max; Withdraw Force: 10N Min.
- **Connector 2:** USB-A Female, Contact: Nickel Plating Over All, Housing: Blue
 - USB-A Female Insertion Force: 35N; Withdraw Force: 10N
- **Connector 3:** USB-C Female, Power Pigtail; Housing: Black
 - Tensile Strength: 6kgf
 - USB-C Pigtail Connection: 5-20N; Withdraw Force: 8-20N
- Outer Jacket: PVC, .55mm Thickness, Black, Rating: CMP
- Operating Temperature: -20°C - 70°C; 30-75% Relative Humidity, Non-Condensing
- Storage Temperature: 25±5°C ; 30-75% Relative Humidity, Non-Condensing
- Cable Marking: USB 3.0 Cable E468039 (UL) CMP c(UL) 75°C
- Product are CE Marked and conforms to FCC/WEEE/ CE/2011/65/EU ROHS2.0
- QC Inspection: 100% Test USB 3.2 Gen 2, 10Gbps, USB 2.0 480Mbps



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SIMPLIFIED CONNECTIVITY

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