



## USB-C AOC Cable (M/M) - USB 3.2 Gen 2 (10 Gbps) Plenum-Rated Fiber Active Optical Cable -Data Only, Black, 20 m (66 ft.)

## MODEL NUMBER: U420F-20M-D3



High-speed in-wall fiber cable connects a USB-C device to the USB-C port on your computer up to 20 meters away.

#### Features

#### Active Optical Cable Connects Servers, Hard Drives and Other USB-C Components

This USB 3.2 Gen 2 fiber optic cable (M/M) securely connects the USB-C port on your desktop, laptop or notebook computer to a USB-C device, such as a server, external hard drive or surveillance camera, located up to 20 meters (66 feet) away. This data-only cable supports USB 3.2 Gen 2 data transfer rates up to 10 Gbps. *Note: This USB-C cable is not backward compatible with USB 3.2 Gen 1, 2.0 or 1.1 devices*.

#### Advanced Fiber Cable Is Easier to Install than Copper

Because the fiber cable is slimmer and more flexible than standard copper USB cables, the U420F-20M-D3 is easier to install around corners and in hard-to-reach spaces behind equipment. It draws power from the connected device, so no external power supply is needed to transmit the USB signal across the longer distances unique to fiber optic cabling.

#### CMP Jacket Designed for In-Wall Installations

The plenum-rated jacket has low smoke and flame characteristics, making it suitable for premise applications in ceilings, walls and ducts.

#### 20 m Cable Lets You Design an Application to Your Custom Specifications

This long cable allows you greater flexibility in placing your USB components. For instance, your camera or hard drive may be located in a different room away from your office or in a central location where others have access to it. The plug-and-play U420F-20M-D3 supports all major operating systems, including Windows, macOS and Linux. **Note:** This data-only cable provides up to 1A of power to the connected device. If your device requires more than 1A of power, an external power supply will be required for the connected USB device.

# **Specifications**

OVERVIEW

### **Highlights**

- 20 m (66 ft.) length allows flexibility in placing USB-C devices where most needed
- Fiber optic construction ideal for long-distance connections not supported by copper
- Supports only USB 3.2 Gen 2 speeds up to 10 Gbps to ensure fast data transfers
- Plenum rated for horizontal premise applications in air ducts and drop ceilings
- Slim, flexible cable easily installs around corners and through hard-to-reach areas

#### **System Requirements**

USB 3.2 Gen 2 ports required on both connected devices. This cable is not compatible with previous USB generations.

#### **Package Includes**

U420F-20M-D3 USB 3.2 Gen 2 Fiber Active Optical Cable, M/M, 20 m (66 ft.)





UPC Gode     0333227514       Technology     USB 3.x       Cable Type     Ves       INPUT     Ves       Bus Powerod     Yes       Spoper     Ves       CONNECTIONS     Ves       Stable A - Connector 1     USB C (MALE)       Side A - Connector 1     USB C (MALE)       Side A - Connector 1     USB C (MALE)       Connector Plating     Gold       Connector Style     Smight       Connector Style     Smight       Methal C Construction     PVC (Plenum-Rated Cable) + 2/nc Alloy (Connector Ends)       Cable JackEt Color     Black       Connector Color     Upt Gray       Cable JackEt Rating     CMC       Cable JackEt Rating     CMP       Cable JackEt Rating     Stable Cable Indexter Rating       Cable Longth (fk.)     E36		
Callor Type     Active       INPUT     Sepore Conserved     Yes       Box Forward     Yes     Sepore Conserved     Sepore Conserved Conserv		
INPUT       Bus Powered     Yes       POWER		USB 3.x
Bus Powered     Yes       POWER     Stab Power Delivery (PD) Charging     No       Stab Power Delivery (PD) Charging     No     Stab A - Connector Stab       Stab A - Connector 1     USB C (MALE)     Stab A - Connector 1     USB C (MALE)       Stab B - Connector 1     USB C (MALE)     Contect Plating     Gold       Contact Plating     Gold     Connector Style     Straight       PHYSICAL     Straight     Straight     Connector Color     Black       Connector Color     Light Gray     Connector Color     Black     Connector Color     Straight       Cable Jacket Material     PVC     Connector Color     Straight Gray     Cable Jacket Material     PVC       Cable Jacket Material     PVC     Connector Color     Straight Gray     Cable Longth (th)     Straight Gray       Cable Longth (th)     6.6     Cable Longth (th)     Straight Gray     Cable Longth (th)     Straight Gray       Cable Longth (th)     1.210 x 9.250 x 8.860     Lint Proversions (two / In.)     1.210 x 9.250 x 8.860     Lint Proversions (two / In.)     Straight Gray Consersion (th) Straight (th) Straight (th) Straight (th) Straight (th) Straight (th) Straight	Cable Type	Active
POWER       USB Power Delivery (PD) Charging Support     No       CONNECTIONS     Side A - Connector 1       Side A - Connector 1     USB C (MALE)       Side B - Connector 1     USB C (MALE)       Connector Plating     Gold       Connector Plating     Gold       Connector Style     Straight       PHYSICAL     Straight       Material of Construction     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Cable Jacket Rating     CMP       Cable Jacket Rating     CMP       Cable Jacket Rating     CMP       Cable Langth (ft.)     65.6       Cable Langth (ft.)     65.6       Cable Langth (ft.)     65.6       Cable Langth (ft.)     61.2       Cable Langth (ft.)     61.2       Cable Langth (ft.)     1.2       Divide Sauging Type     Box       Environmetertat     Straiget (20' to 70'C)       Relative Humidity     5% TO 90% RH, Non-Condensing       Operating Temperature Range     5% TO 90% RH, Non-Condensing	INPUT	
Support     No       connector Street     USB C (MALE)       Side A - Connector 1     USB C (MALE)       Side B - Connector 1     USB C (MALE)       Connector Plating     Gold       Connector Plating     Gold       Connector Style     Side Machine       PHYSICAL     VC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Conted r Diator     VPC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Material     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Material     VPC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Material     VPC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Material     VPC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Material     VPC       Vire Gauge (AWG)     IB       Cable Jacket Material     VPC       Vire Gauge (AWG)     IB       Cable Length (ft.)     65.6       Cable Length (ft.)     1210 x 9.250 x 8.860       Unit Dimensions (hwd / in.)     1210 x 9.250 x 8.860       Unit Packaging Type     Box <td>Bus Powered</td> <td>Yes</td>	Bus Powered	Yes
Support     Ite       connector netor neto	POWER	
Side A - Connector 1USB C (MALE)Side B - Connector 1USB C (MALE)Connector PlatingGoldConnector PlatingGoldConnector SiyleStraightPHYSICALNaterial of ConstructionPVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)Raterial of ConstructionBlackConnector ColorLight GrayCable Jacket RatingPVCCable Jacket RatingCMPCable Jacket RatingCMPCable Lackt Material9.00Cable Length (ft.)65.6Cable Length (m)20.00Cable Length (m)1.210 x 9.250 x 8.860Unit Dimensions (hvd / In.)1.210 x 9.250 x 8.860UNIROMMENTALENVIROMMENTALOperating Temperature Range32* to 122*F (0° to 50*C)Storage Temperature Range32* to 123*F (-20* to 70*C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	USB Power Delivery (PD) Charging Support	No
Side B - Connector 1     USB C (MALE)       Connector Plating     Gold       Connector Style     Straight       PHYSICAL     PHYSICAL       Material of Construction     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Biack       Connector Color     Light Gray       Cable Jacket Material     PVC       Cable Jacket Material     PVC       Cable Jacket Material     CMP       Cable Jacket Material     CMP       Cable Jacket Material     CMP       Cable Jacket Material     Straignt       Cable Jacket Material     PVC       Cable Jacket Material     PVC       Cable Jacket Material     CMP       Cable Jacket Material     Straignt       Cable Jacket Material     PVC       Cable Length (ft.)     65.6       Cable Length (ft.)     65.6       Cable Length (m.)     1210 x 9.250 x 8.860       Unit Dimensions (hwd / in.)     12.10 x 9.250 x 8.860       Unit Dimensions (hwd / in.)     32* to 122*F (0° to 50°C)       Storage Temperature Range     2* to 158°F (-20° to 70°C)	CONNECTIONS	
Connector Plating     Gold       Connector Style     Gold       Connector Style     Straight       PHYSICAL     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Connector Color     Light Gray       Cable Jacket Material     PVC       Cable Jacket Rating     CMP       Cable Jacket Rating     CMP       Cable Jacket Rating     CMP       Cable Jacket Rating     Scond       Cable Jacket Rating     CMP       Cable Length (ft.)     65.6       Cable Length (n)     20.00       Cable Length (n)     12.10 x 9.250 x 8.860       Unit Dimensions (hvd / in.)     1.210 x 9.250 x 8.860       Unit Packaging Type     Box       Envirrenter     Straiger (or to 50°C)       Storage Temperature Range     32" to 122"F (or to 50°C)       Storage Temperature Range     5% TO 90% RH, Non-Condensing       Operating Humidity Range     5% TO 90% RH, Non-Condensing	Side A - Connector 1	USB C (MALE)
Contact Plating     Gold       Connector Style     Straight       PHYSICAL     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Connector Color     Light Gray       Cable Jacket Rating     PVC       Cable Jacket Rating     CMP       Cable Jacket Rating     CMP       Cable Jacket Rating     ES6       Cable Length (ft.)     65.6       Cable Length (ft.)     65.6       Cable Length (ft.)     787.4       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Packaging Type     Box       Porterture     Sorage Temperature Range       Straige Temperature Range     32" to 122" f (0" to 50"C)       Storage Temperature Range     5% TO 90% RH, Non-Condensing       Operating Humidity Range     5% TO 90% RH, Non-Condensing	Side B - Connector 1	USB C (MALE)
Connector Style     Straight       PHYSICAL     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Connector Color     Light Gray       Cable Jacket Material     PVC       Cable Jacket Material     PVC       Cable Jacket Rating     CMP       Cable Length (ft.)     65.6       Cable Length (ft.)     65.6       Cable Length (in.)     787.4       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Packaging Type     Box       EnvireONMENTAL     22° to 122°F (0° to 50°C)       Storage Temperature Range     32° to 122°F (0° to 50°C)       Relative Humidity     5% TO 90% RH, Non-Condensing       Operating Humidity Range     5% TO 90% RH, Non-Condensing	Connector Plating	Gold
PHYSICAL       Material of Construction     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Connector Color     Light Gray       Cable Jacket Material     PVC       Cable Jacket Material     PVC       Cable Jacket Rating     CMP       Cable Jacket Rating     LMP       Cable Outer Diameter (OD)     4.5 mm       Wire Gauge (AWG)     18       Cable Length (ft.)     65.6       Cable Length (m.)     20.00       Cable Length (in.)     787.4       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Packaging Type     Box       EnvireOnmental     32° to 122°F (0° to 50°C)       Storage Temperature Range     32° to 122°F (0° to 50°C)       Storage Temperature Range     -4° to 158°F (-20° to 70°C)       Relative Humidity     5% TO 90% RH, Non-Condensing       Operating Humidity Range     5% TO 90% RH, Non-Condensing	Contact Plating	Gold
Material of Construction     PVC (Plenum-Rated Cable) + Zinc Alloy (Connector Ends)       Cable Jacket Color     Black       Connector Color     Light Gray       Cable Jacket Material     PVC       Cable Jacket Rating     CMP       Cable Jacket Rating     4.5 mm       Cable Jacket Rating     68.6       Cable Length (ft.)     65.6       Cable Length (m.)     787.4       Unit Dimensions (hwd / in.)     1.210 x 9.250 x 8.860       Unit Damerature Range     S2* to 122*F (0° to 50°C)       Storage Temperature Range     S2* to 128*F (-20° to 70°C)       Relative Humidity     S% TO 90% RH, Non-Condensing       Operating Humidity Range     S% TO 90% RH, Non-Condensing	Connector Style	Straight
Cable Jacket ColorBlackConnector ColorLight GrayCable Jacket MaterialPVCCable Jacket RatingCMPCable Jacket Routing4.5 mmWire Gauge (AWG)18Cable Length (ft.)65.6Cable Length (m)20.00Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	PHYSICAL	
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Cable Jacket MaterialPVCCable Jacket RatingCMPCable Outer Diameter (OD)4.5 mmWire Gauge (AWG)18Cable Length (ft.)65.6Cable Length (m)20.00Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Cable Jacket Color	Black
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Cable Outer Diameter (OD)4.5 mmWire Gauge (AWG)18Cable Length (ft.)65.6Cable Length (m)20.00Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range-4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Cable Jacket Material	PVC
Wire Gauge (AWG)18Cable Length (ft.)65.6Cable Length (m)20.00Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range-4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Cable Jacket Rating	СМР
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Cable Length (m)20.00Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range-4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Wire Gauge (AWG)	18
Cable Length (in.)787.4Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range-4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Cable Length (ft.)	65.6
Unit Dimensions (hwd / in.)1.210 x 9.250 x 8.860Unit Packaging TypeBoxENVIRONMENTALOperating Temperature Range32° to 122°F (0° to 50°C)Storage Temperature Range-4° to 158°F (-20° to 70°C)Relative Humidity5% TO 90% RH, Non-CondensingOperating Humidity Range5% TO 90% RH, Non-Condensing	Cable Length (m)	20.00
Unit Packaging Type   Box     ENVIRONMENTAL   32° to 122°F (0° to 50°C)     Operating Temperature Range   32° to 122°F (0° to 50°C)     Storage Temperature Range   -4° to 158°F (-20° to 70°C)     Relative Humidity   5% TO 90% RH, Non-Condensing     Operating Humidity Range   5% TO 90% RH, Non-Condensing	Cable Length (in.)	787.4
ENVIRONMENTAL     Operating Temperature Range   32° to 122°F (0° to 50°C)     Storage Temperature Range   -4° to 158°F (-20° to 70°C)     Relative Humidity   5% TO 90% RH, Non-Condensing     Operating Humidity Range   5% TO 90% RH, Non-Condensing	Unit Dimensions (hwd / in.)	1.210 x 9.250 x 8.860
Operating Temperature Range   32° to 122°F (0° to 50°C)     Storage Temperature Range   -4° to 158°F (-20° to 70°C)     Relative Humidity   5% TO 90% RH, Non-Condensing     Operating Humidity Range   5% TO 90% RH, Non-Condensing	Unit Packaging Type	Box
Storage Temperature Range -4° to 158°F (-20° to 70°C)   Relative Humidity 5% TO 90% RH, Non-Condensing   Operating Humidity Range 5% TO 90% RH, Non-Condensing	ENVIRONMENTAL	
Relative Humidity 5% TO 90% RH, Non-Condensing   Operating Humidity Range 5% TO 90% RH, Non-Condensing	Operating Temperature Range	32° to 122°F (0° to 50°C)
Operating Humidity Range 5% TO 90% RH, Non-Condensing	Storage Temperature Range	-4° to 158°F (-20° to 70°C)
	Relative Humidity	5% TO 90% RH, Non-Condensing
Storage Humidity Range 5% TO 90% RH, Non-Condensing	Operating Humidity Range	5% TO 90% RH, Non-Condensing
	Storage Humidity Range	5% TO 90% RH, Non-Condensing





FEATURES & SPECIFICATION	NS
USB Specification	USB 3.1 Gen 2 (up to 10 Gbps); USB 3.2 Gen 2 (Up to 10 Gbps)
Data Transfer Rate	10 Gbps
Driver Required	No
STANDARDS & COMPLIANCE Product Certifications	E CAN/CSA C22.2; EN 55032; UL Listed
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS; UKCA
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	3-year limited warranty

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