

DATA SHEET

USB 3.0 Active Optical Cable

Best.nr: 20102213, 20102214. 20102215, 20102216, 20102217, 20102218, 20102219

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Description

AOC USB extension cable, 20102213-19 links the USB data up to 100m (328ft) without any repeater. 20102213-19 provides the simplest way to link the USB device far from the host. Owing to the advanced VCSEL and PD, the USB protocol is capable of transmitting fully secured data with high cost efficiency by adapting hybrid fiber cable.

20102213-19 provides A plug to A plug. In addition, instead of using a pure fiber optical cable, to enhance its affordability, hybrid fiber cable with electrical wire is used, yet it meets Plenum grade. This offers convenient extension where there is no AC power supply adjacent at the end of the device. Furthermore, bi-directional transmission increases the convenience in such users do not need to distinguish TX/RX side of the connector. The cable is designed to be insensitive on the side.

A to B copper cable (15cm) and a locking housing are provided as an options for Type B device such as Camera, USB hub and etc.

Shipping Group:

- 1) One (1) USB-cable
- 2) User's Manual
- 3) USB A to USB B adapter copper cable (15cm)
- 4) Locking Housing

Features

- Compatible with USB 3.0 standards
- Transmits USB 3.0 data to 100m (328 feet) over hybrid cable.
- TX / RX insensitive design (two-way port)
- SuperSpeed USB 5Gbps data rate
- Adopts plenum graded hybrid cable
- Operated by 5V source power
- USB 3.0 A type plug-in to A type plug
- No software installation required: Plug and Play



Applications

- Security / Monitoring over USB Camera
- Conference Room
- Control Room
- · Offices / Factories
- Government
- Military

Technical Specifications

Parameter	Specification		
Standard	USB 3.0		
Power consumption	2W		
Dimension (WDH)	40 x 16 x 9mm		

Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these of any other conditions in excess of those given in the operational sections of the datasheet. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Min	Тур	Max	Unit
Supply Volt ¹	Vcc	-	5		V
Storage Temperature ¹	Tst	-20		+70	° C
Storage Relative Humidity ²	RH	10		90	%

Note:

Recommended Operating Conditions

Parameter	Symbol	Minimum	Typical	Maximum	Units
Bit rate	В	-	5.0	-	Gbps
Operation Temperature Range	То	0	-	50	°C
Supply Voltage	Vcc	4.8	5	5.2	V
Operating Current	Icc	-	-	400	mA
Differential Impedance	R	-	90	-	Ohm

¹⁾Stresses listed may be applied without causing damage. Functionality at or above the values listed is not implied. Exposure to these values for extended periods may affect reliability.

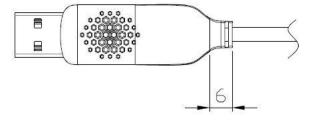
²⁾ Non-condensing environment.

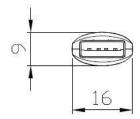


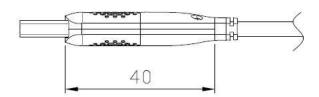
Physical Characteristics

Parameter	Description
Cable Type	Hybrid Cable MMF(OM3*4C) + 6C Electrical Wires
Cable Jacket	PVC Plenum
Cable Dimension	3.8 mm
Pull Strength	15 Kg
Minimum Bend Radius	38 mm (Under Load)

Drawing of Module

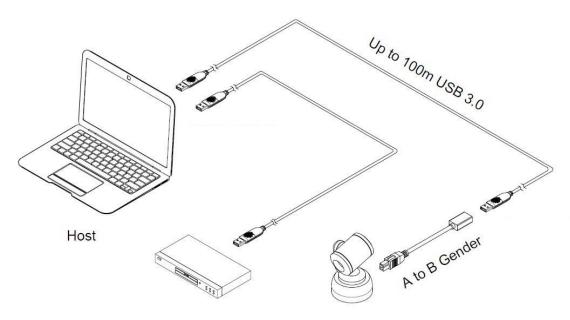








Dataprodukter utöver det vanliga



USB Devices

USB Pin Description

Pin	Symbol	Functional Description		
1	VBUS	Power		
2	Data-	NC		
3	Data+	NC		
4	GND	Ground for Power		
5	SSRX-	SuperSpeed Receiver		
6	SSRX+	SuperSpeed Receiver		
7	GND DRAIN	Ground for signal		
8	SSTX-	SuperSpeed Transmitter		
9	SSTX+	SuperSpeed Transmitter		

