

USB 3.0 Type A Male to Micro-B Active Optical Cable

Description

In order to solve various problems such as stability, compatibility and distance limitation when transmitting USB3.0 Type A male to micro-B super-speed signal transmission with traditional copper cables, Donghoo Tech has launched an industry-leading USB 3.0 active optical cable.

This product has a built-in micro-diffraction system with stable performance.

The cable material is made of optical fiber, the cable has a small outer diameter, light weight, small footprint, excellent bending performance and good lateral pressure resistance, which is convenient for wiring construction and saves costs. The transmitter and receiver are shielded with a zinc alloy housing for maximum strength and durability.

This product is mainly used in security cameras, digital home theaters, extended data storage, DVD/set-top boxes, car data transmission, printers, etc.

Feature

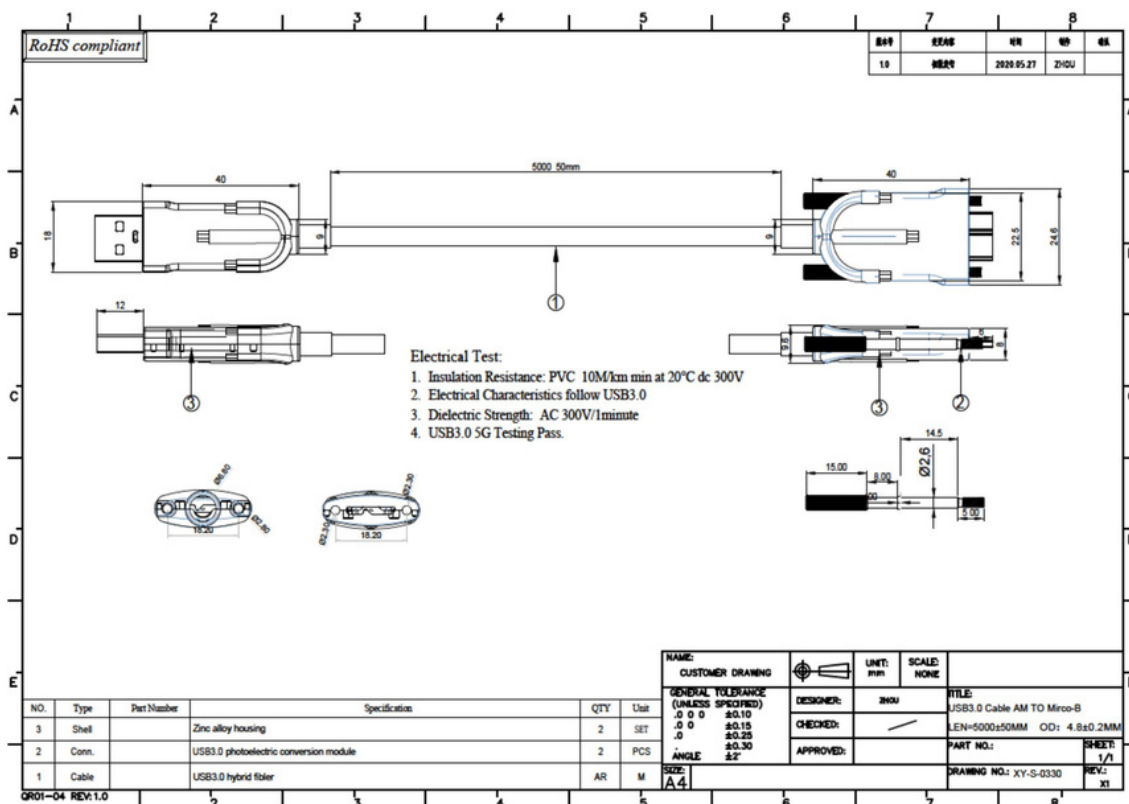
- ☐ 850nm VCSEL array technology;
- ☐ Micro diffractive optical system with built-in patented design;
- ☐ No signal delay, no attenuation, no compression;
- ☐ Support long-distance transmission, up to 50 meters of lossless transmission;
- ☐ High-speed signals are transmitted through 2 multi-mode fibers, with good anti-interference performance;
- ☐ Support hot swap;
- ☐ Application scenarios: security cameras, digital home theaters, extended data storage, car data transmission, printers, etc;
- ☐ Low power consumption, no external power supply required;

Specification

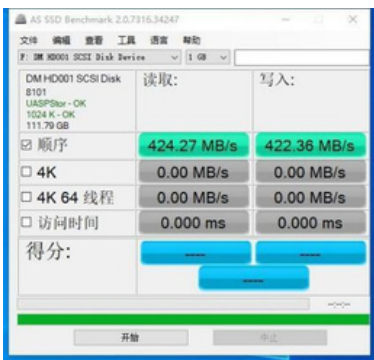
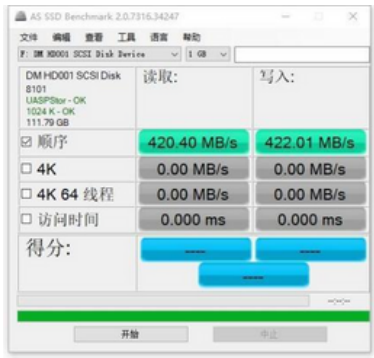
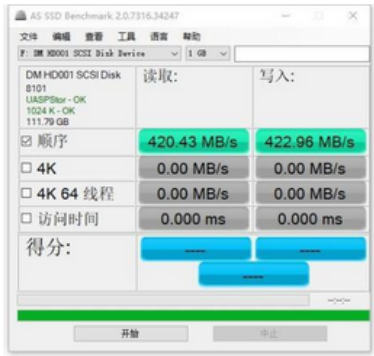
Performance	
Protocol Specification	USB3.1 (Gen 2) , USB 3.0, USB2 .0
Transmission Rate	10Gbps
Interface	
Input	USB type A male
Output	USB micro-B male
Power supply	Low power consumption, no external power supply required
Wire Specification	
Wire	2*optical fiber
Fiber type	2 cores OM3 multimode fiber
Length	/5/10/15/20/30 meters (can be customized)

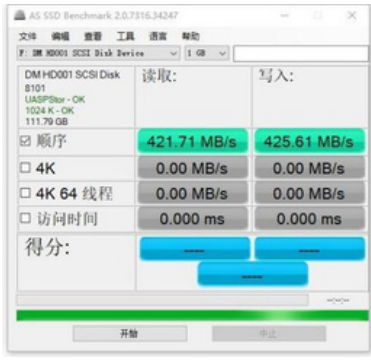
Max length	50 meters
Jacket	PVC
Color	Black
OD	4.8mm±0.1mm
Min Bending Radius	6mm
Max Tensile Load	150N
Environment related	
Operating temperature	-20°C To +70°C
Storage temperature	-20°C To +80°C
Power	
Input voltage	+5V±0.2V 900mA
Power consume	≤500mW
Package	
Inner	cabletie,connectordustproofcover,aluminumfoilbag
Outer	corrugatedbox
Remark	
Be careful to avoid excessive bending and breaking the fiber. Please refer to the bending radius for more details.	

Dimension



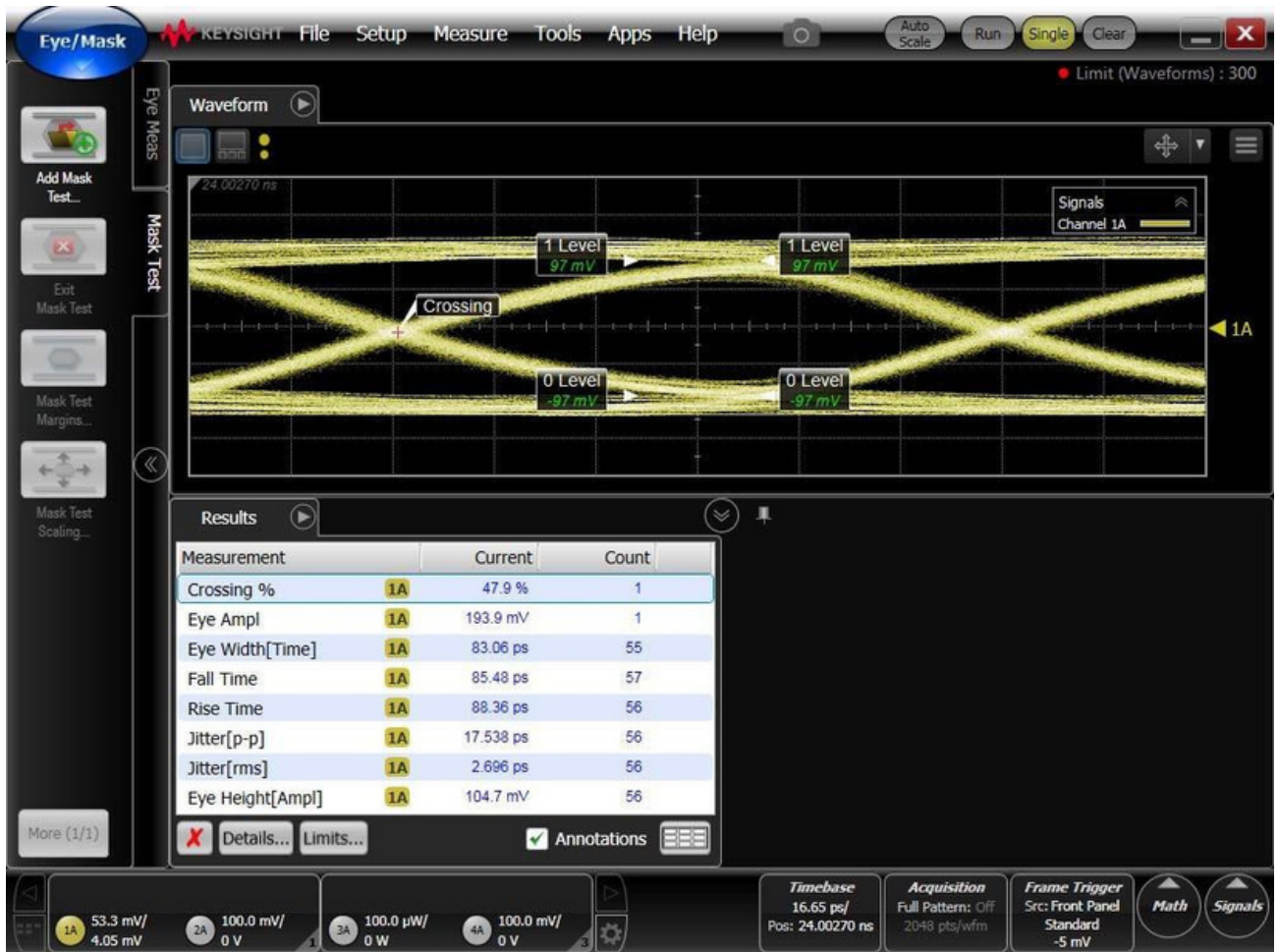
Test Report

USB3.0 AOC Test report		
Product Name	USB 3.0 Type A Male to Micro-B Active Optical Cable	
Model Number	XY-S-0330	
Test Conditions		
Temperature	25℃	
Operating Voltage	5v	
Date	2020.05.27	
Test tool: AS SSD Benchmark 2.0.7316.34247 Samsung 850EVO 120GB Samsung 970EVO 500G Orico 20G M.2 hard drive box		
10M		5G PASS
15M		5G PASS
20M		5G PASS

30M		5G PASS
10M		10G PASS
15M		10G PASS
20M		10G PASS
30M		10G PASS

BER Test

BER Tester:	PRECISE PSS_BERT15441
5Gbps 150s	



Jitter[rms]	ps	2.696
Jitter[p-p]	Eye ps	17.538
Ampl	Eye mV	193.9
Width[Time]	Eye ps	83.06
Height[Ampl]	Fall mV	104.7
Time Rise Time	ps	85.48
Crossing %	ps	88.36
	%	47.9