



EverPro Technologies Company Ltd.

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USB3.1 Gen1 Hybrid Active Optical Cable

EPIUH52-A0B3

Rev 1.2



EverPro Technologies Company Ltd.



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1 Description

In order to compensate for ordinary USB3.0 active fiber cable' s defect that can' t supply power to device, EverPro introduce new generation of USB3.1 Gen1 hybrid cable (EPIUH52). On the basis of the use of optical fiber as the transmission medium, EPIUH52 integrate copper to achieve the purpose of supplying power to device. The hybrid cable length can be up to 20m without adding any relay device which is suitable for the scene of having no on-site power supply. Everpro' s EPIUH52-A0B3 product can be easy to use for Machine Vision application because of its MicroB connector with screw locked.

2 Feature

- The maximum cable length can be up to 20m
- The maximum transition speed can be up to 5Gbps
- High Flexible: >10million cycle times
- Support USB3.1 Gen1 Vision Standard
- Without power
- Providing maximum 900mA/5V for the device
- With locking screws in device side
- Hot-plugging
- No driver
- Anti-jamming



3 Specification

Physical Specification

Host Side	USB3.0 Standard-A Plug
Device Side	USB3.0 Micro-B Plug (with locking screws)
Dimension of The End	Host Side: 43.64mm/19.14mm/8mm
	Device Side: 49.46mm/23.5mm/10mm
Net Weight (Type.)	395g (10m)
Cable Diameter	4.8mm
Option Cable length	05m/10m/15m/20m
Bend Radius (Dynamic/Static)	50mm/20mm
Tensile Strength (Long Term/Short Term)	150N/300N
Crush Resistance (Long Term/Short Term)/100mm	500N/1000N
Operating/Storage Temperature	0~50°C/-20~70°C

Electrical Specification

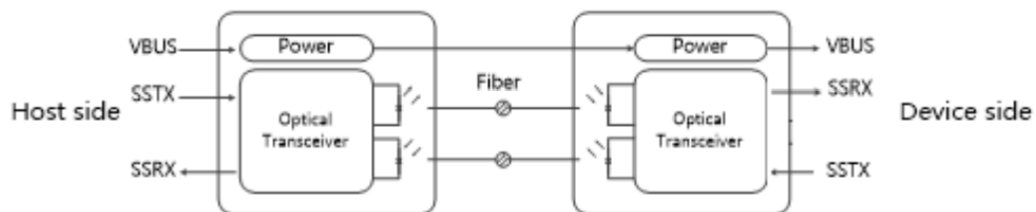
Supply Voltage	4.75~5.25V
Supply Current	<200mA
Power Dissipation	< 0.94W
Device Side Supply Current	Maximum5V 900mA(05m/10m/15m)/600mA(20m)

General Information

ROHS2.0 Compliance	Yes
CE Conformity	Yes
Warranty	1 year

Technical Description

EPIUH52 series built-in optical transceiver chip to complete the OE & EO conversion.



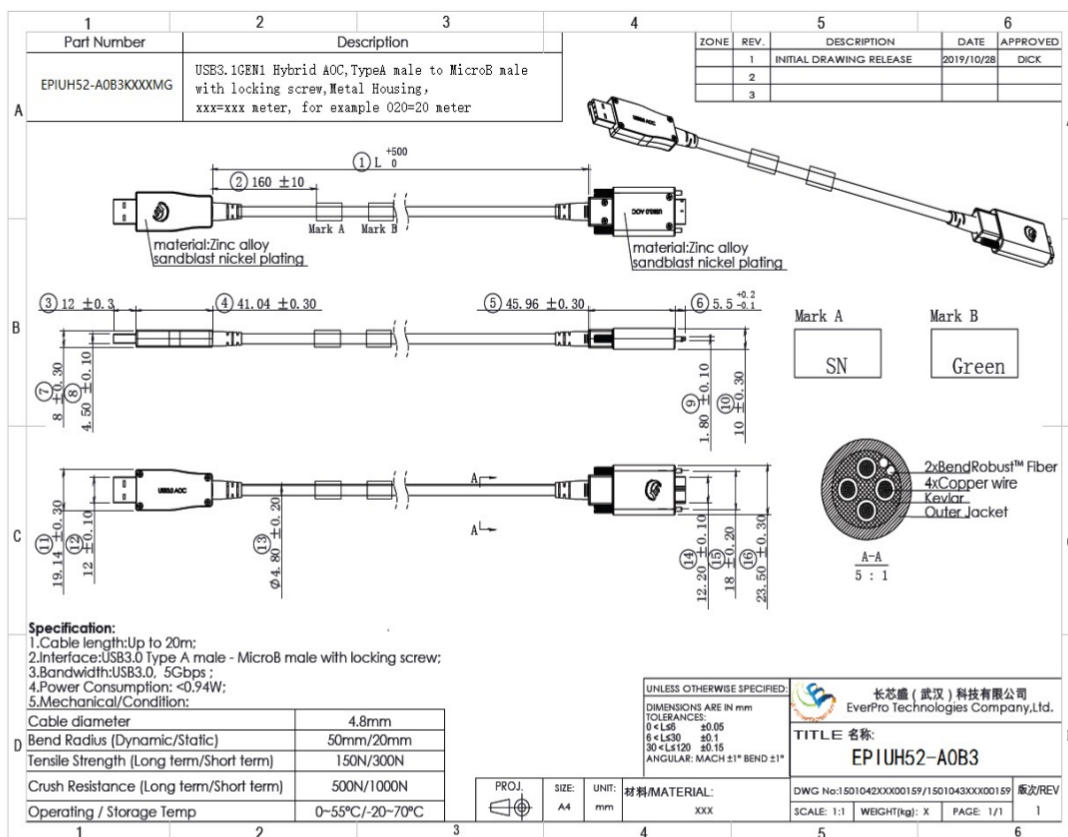
4 Part Number

Part Number	Description
EPIUH52-A0B3KxxxMG	USB3.1GEN1 Hybrid AOC, TypeA male to MicroB male with locking screw, Metal Housing, xxx=xxx meter, for example 020=20 meter

Note1 : All of standard cables have Everpro LOGO. NRE is need if adding customized logo.

Note2 : Lead time will be increased if need customized length.

5 Drawing





6 Application

- Machine Vision Camera Extension
- Security Camera Extension
- Digital Signage and TV Wall
- Smart Digital Video Surveillance System
- Zero Client Connectivity
- Remote Storage

Mouser Electronics

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[EPIUH52-A0B3K005MG](#)