



EverPro Technologies Company Ltd.

长芯盛（武汉）科技有限公司



USB3.0 Hybrid Active Optical Cable

EPU3HC-A0B3

Rev 1.1



EverPro Technologies Company Ltd.



Contents

1 DESCRIPTION.....	3
2 FEATURE.....	3
3 SPECIFICATION.....	4
4 MECHANICAL DIMENSIONS.....	6
5 PART NUMBER.....	6
6 APPLICATION.....	7



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 USB3.0 hybrid cable (EPU3HC). On the basis of the use of optical fiber as the transmission medium, EPU3HC 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 EPU3HC-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: >5million cycle times
- Support USB3.0 Vision Standard
- Without power
- Providing maximum 900mA/5V for the device
- With locking screws
- 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 : 35mm/16.4mm/8mm
	Device Side: 39mm/26.4mm/8.5mm
Net Weight (Type.)	385g (10m)
Cable Diameter	4.8mm
Bend Radius	50mm
Cable Length	Up to 20m
Option Cable length	05m/10m/15m/20m

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)

Environmental Specification

Operating Environmental conditions	
Temperature (°C) ;	0 - 55°C
Humidity (%)	15% - 85%
Pressure	700hPA - 1060hPA
Max. temperature gradient :	6 °C / h
Transport Environmental conditions	
Temperature (°C) ;	-20 - 55 °C



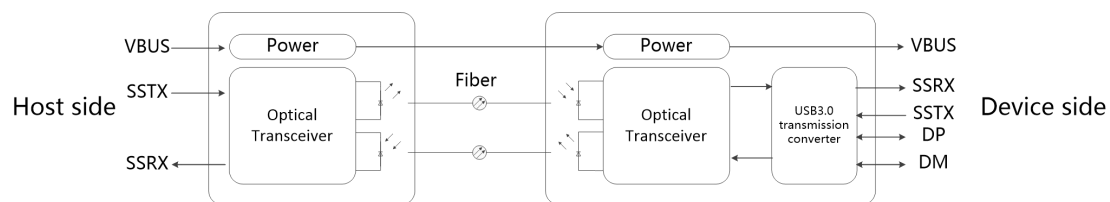
Humidity (%)	5% - 95%
Pressure	700hPA - 1060hPA
Max. temperature gradient :	10 °C / h
Storage Environmental conditions	
Temperature (°C) ;	-20 - 70 °C
Humidity (%)	5% - 95%
Pressure	700hPA - 1060hPA
Max. temperature gradient :	10 °C / h

General Information

ROHS Compliance	Yes
CE Conformity	Yes
UL Conformity	UL 758
Warranty	1 year

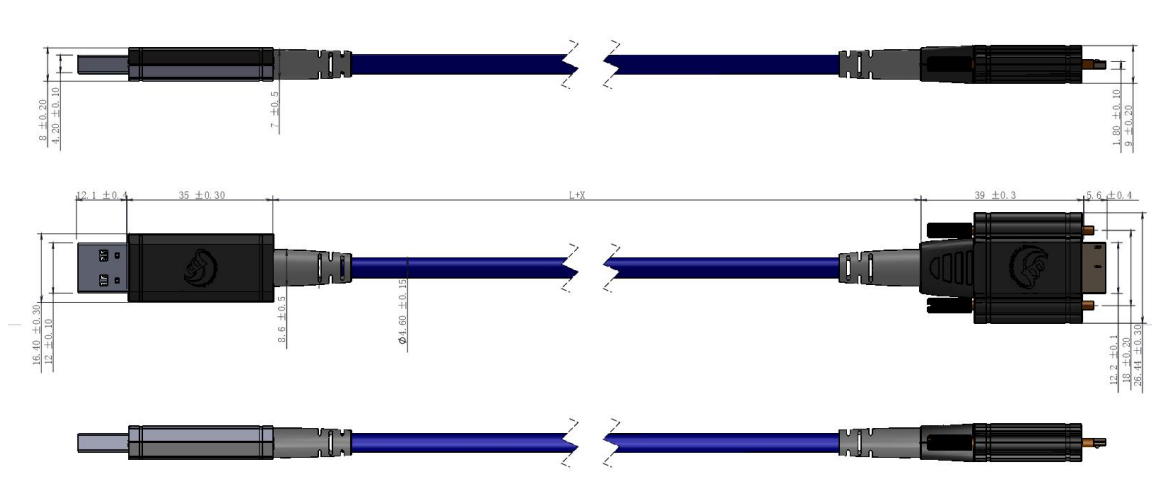
Technical Description

EPU3HC series built-in optical transceiver chip to complete the OE & EO conversion.





4 Mechanical Dimensions



5 Part Number

Part Number	Description
EPU3C-AOB3KxxxPAG	USB3.0 Hybrid AOC, TypeA male to MicroB male with locking screw, Plastic 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.



6 Application

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