



EverPro Technologies Company Ltd.

长芯盛(武汉)科技有限公司

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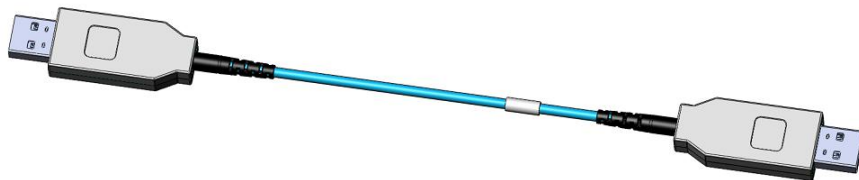


# USB3.0 Active Optical Cable

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## EPGUP13-A0A0

Ver 1.0



EverPro Technologies Company Ltd.

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# 1 Description

The EverPro Technologies **EPGUP13-A0A0** USB3.0 Cable is a kind of Active Optical Cable (AOC) used to extend the transmission distance of USB3.0 transmission up to 100m (330ft).

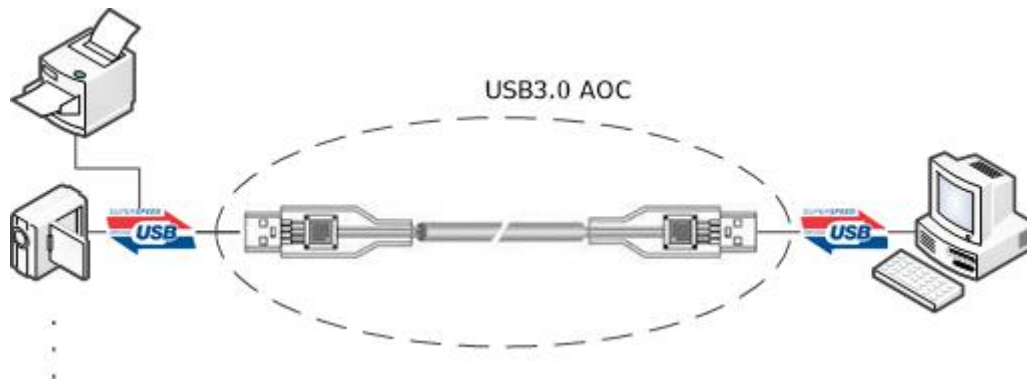


Figure 1. EPGUP13-A0A0 Overview

EPGUP13-A0A0 has two USB3.0 Standard-A connectors, and each end of this connector has one chip to complete the conversion of photoelectric and electro-optical, and the middle connecting line is high-speed multimode optical fiber transmission signal. Without any other connector or power adapter, EPGUP13-A0A0 is powered by vBus of two USB3.0 Standard-A connectors.

CAUTION: EPGUP13-A0A0 supports only USB3.0 compatible devices, but with the Optional Accessories, EPU3D02AR or EPU3H02AR, USB 2.0 and 1.1 compatible devices can also be supported.



## 2 Feature

- Long distance transmission, over 100 meters
- Super speed up to 5Gbps
- Plug and play without driver dependent
- Thinner and lighter than conventional copper cable
- Highly resistant with EMI and RFI
- Backward compatible with USB2.0/1.1 when work with SuperTT build-in devices
- Powered by USB VBUS (U3D or U3H can provide power for EPGUP13)
- Only work with self-powered USB devices



# 3 Specification

## Transfer Rates

USB3.0	5 Gbps
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## Physical Specification

Host Side	USB3.0 Standard-A Plug
Device Side	USB3.0 Standard-A Plug
Dimension of The End	41.6mm/19.14mm/8mm
Cable Diameter	3mm
Cable Length	Up to 100m
Option Cable length	10m/20m/30m/50m/70m/100m
Bend Radius (Dynamic/Static)	60mm/30mm
Tensile Strength (Long Term/Short Term)	150N/300N
Crush Resistance (Long Term/Short Term) /100mm	500N/1000N
Operating/Storage Temperature	-10~55°C/-20~70°C

## Electrical Specification

Supply Voltage	4.75~5.25V
Power Dissipation	0.58W

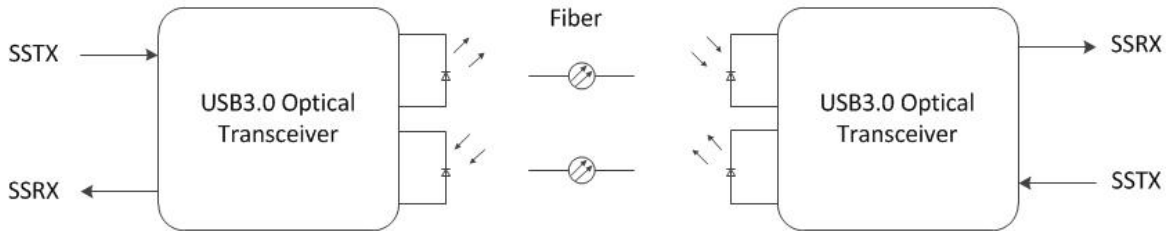
## General Information

ROHS2.0 Compliance	Yes
CE/FCC Conformity	Yes
UL Conformity	UL 758
Warranty	1 year



## Technical Description

EPGUP13 series built-in optical transceiver chip to complete the OE & EO conversion



# 4 Part Number

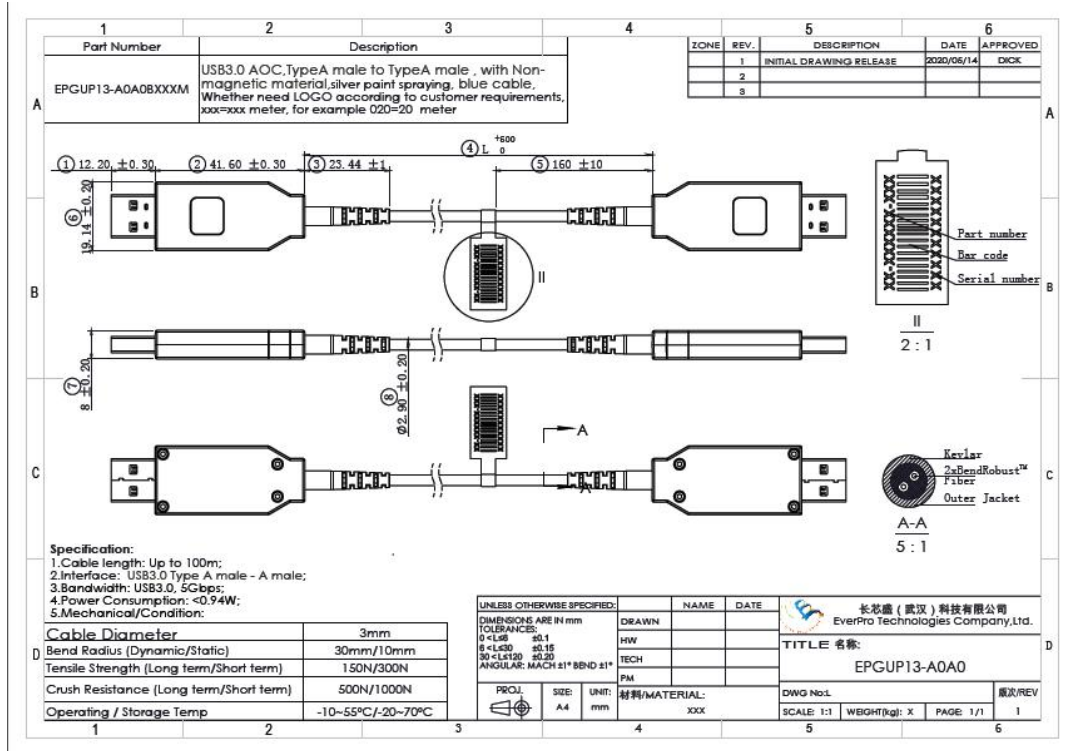
Part Number	Description
EPGUP13-A0A0BxxxM	USB3.0 Pure AOC, TypeA male to male, Zinc-alloy paint shell, Blue Cable xxx=xxx meter, for example 050=50 meters

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 Cable dimension



# 6 Application

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

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