



EverPro Technologies Company Ltd.

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USB3.0 Active Optical Cable

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).

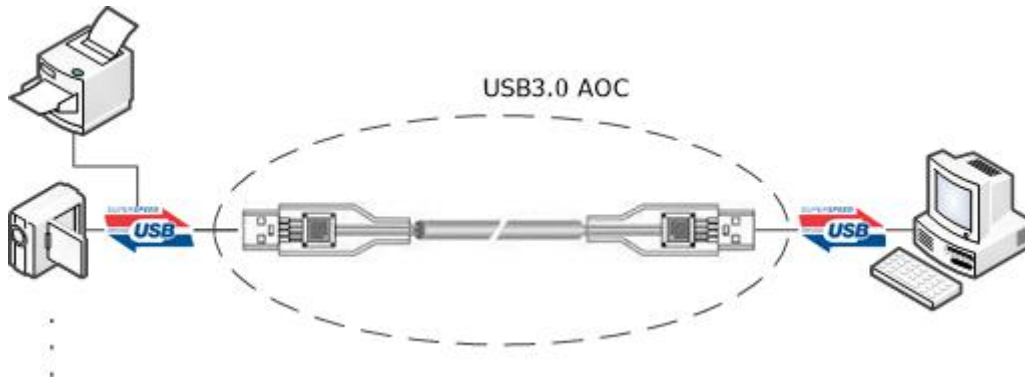


Figure 1. EPGUP13-A0A0 Overview

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 |
|--------|--------|

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 |

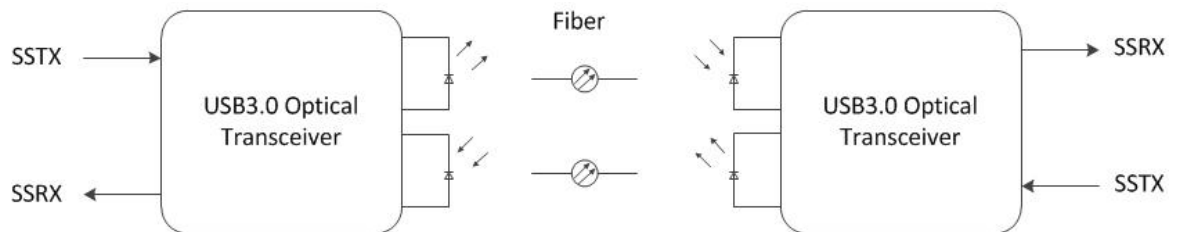
General Information

| | |
|--------------------|--------|
| 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



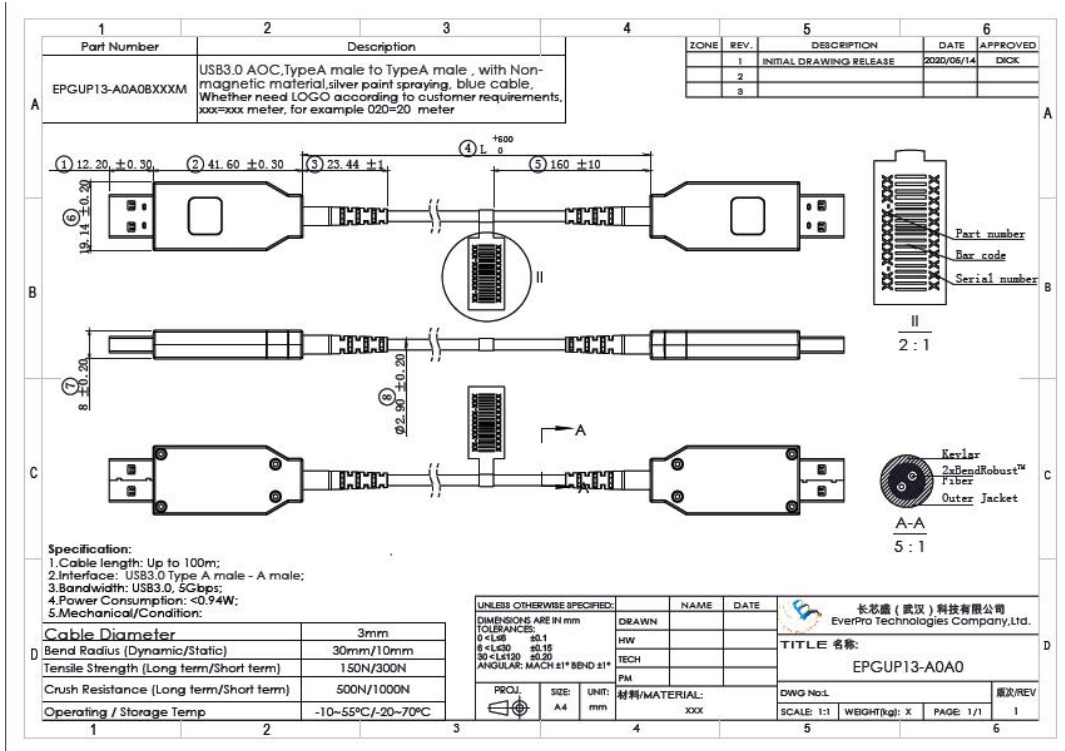
4 Part Number

| 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