SODAVISION
machine vision. imaging technologies.

USB3.2 GEN2 High-Flex Hybrid Active Optical Extension Cable

Brand	SKU / Part Number	Product Description
SODA	**USB3-2.0M-FO-EXT v2**	2M USB3.2 GEN2 hybrid AOC type A male to type A female with locking screws hole. Injection covers, high-flex cable, for drag chain application, 10million cycle times.
SODA	**USB3-3.0M-FO-EXT v2**	3M USB3.2 GEN2 hybrid AOC type A male to type A female with locking screws hole. Injection covers, high-flex cable, for drag chain application, 10million cycle times.
SODA	**USB3-5.0M-FO-EXT v2**	5M USB3.2 GEN2 hybrid AOC type A male to type A female with locking screws hole. Injection covers, high-flex cable, for drag chain application, 10million cycle times.
SODA	**USB3-10.0M-FO-EXT v2**	10M USB3.2 GEN2 hybrid AOC type A male to type A female with locking screws hole. Injection covers, high-flex cable, for drag chain application, 10million cycle times.

Contact Us

SINGAPORE (HQ)

SODA VISION PTE LTD

39, Woodlands Close,
#05-61,
MEGA @ Woodlands,
Singapore 737856

☎ (+65) 6694 0389

- sales.ssg@sodavision.com
- sales@sodavision.com
- www.sodavision.com

MALAYSIA

SODA VISION SDN BHD

1-3-5, Summerskye Square,
Jalan Sungai Tiram 8,
Bayan Lepas, 11900,
Pulau Pinang,
Malaysia

☎ (+604) 609 7179

- sales.smy@sodavision.com
- sales@sodavision.com
- www.sodavision.com

THAILAND

SODA VISION (THAILAND) CO., LTD.

546, 11th Floor,
Ratchada One Tower,
Ratchadaphisek Road,
Chan Kasem, Chatuchak,
Bangkok, 10900 Thailand

☎ (+66) 2481 6512

- sales.sth@sodavision.com
- sales@sodavision.com
- www.sodavision.com

VIETNAM

SODA VISION PTE LTD

B20, 4th Floor, Toong Embassy,
N01-T4 Building, Do Nhuan Street,
Bac Tu Liem District,
Hanoi 100000,
Vietnam

☎ (+84) 24 3926 3888

- sales.svn@sodavision.com
- sales@sodavision.com
- www.sodavision.com

Physical Specification

Host Side	USB3.2 GEN2 Standard-A Plug
Device Side	USB3.2 GEN2 Standard-A receptacle （with locking screw holes）
Dimension of The End	Host Side：45.5mm/16mm/8mm
	Device Side：56mm/28mm/12mm
Net Weight (Type.)	TBD
Cable Diameter	4.9mm
Cable Length	10m
Option Cable length	5/10m
Bend Radius (Dynamic/Static)	80mm/25mm
Tensile Strength (Long Term/Short Term)	200N/100N
Crush Resistance (Long Term/Short Term)/100mm	100N/200N
Operating/Storage Temperature	-20~70°C/-40~85°C

Electrical Specification

Supply Voltage	4.75~5.25V
Supply Current	<200mA
Power Dissipation	1W
Device Side Supply Current *	800mA(5m/10m)

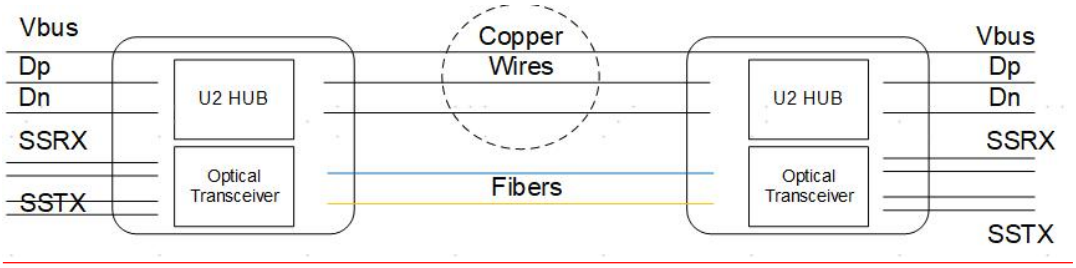
Note: * Need to connect Auxiliary power supply to host side

General Information

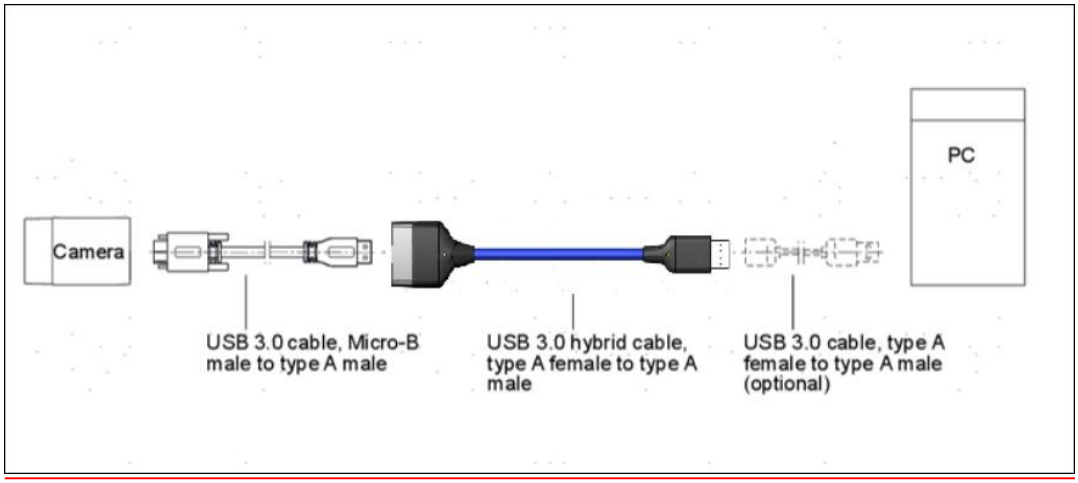
ROHS2.0 Compliance	Yes
CE Conformity	Yes
Warranty	1 year

Technical Description

Built-in optical transceiver chip to complete the OE & EO conversion.

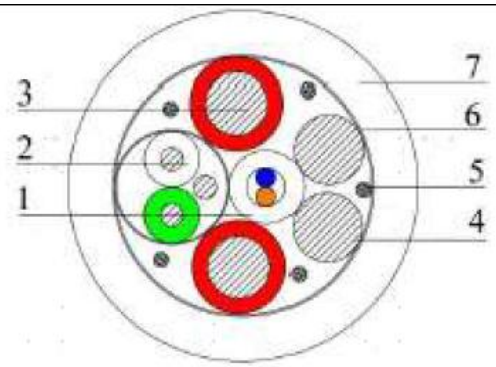


Cable Connections Overview

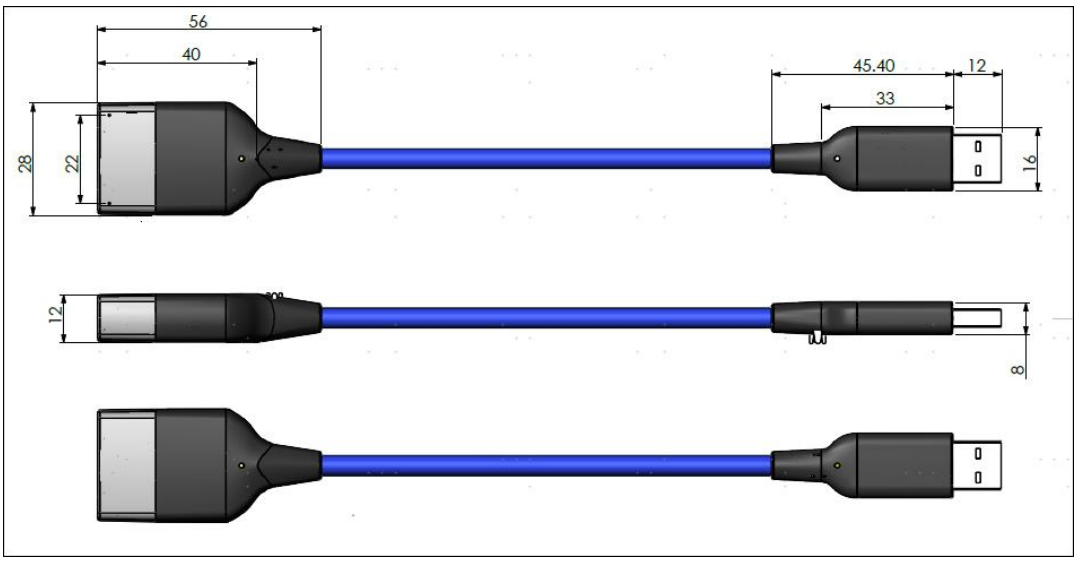


Item	Contents	Value	Supplement		Other
1	Sub cable	OM2 multimode fiber	Fiber type	OM2 multimode fiber	(Two cores)
			Core diameter	50±2.5 μ m	
			P-coating diameter	125±2 μ m	
			Coating diameter	245±7 μ m	
			Color layer diameter	252±7 μ m	
		Sub cable Jacket	Sub Cable OD	1.20±0.05mm	/
			Jacket material	white LSZH FRPO	
2	STP 线	Conductor	Strand structure	7*0.10mm	3*30AWG
			Conductor material	Tinned wire	
			Conductor diameter	0.30mm Ref.	
		Insulation	Insulation material	PE	
			Insulation thickness	0.21mm Nom,0.18mm Min.	
			Insulation diameter	0.72±0.05mm	
			Insulation color	White /Green	
		Twisted pair	Drainage line	7*0.10mm	
			Conductor material	Tinned wire	
			Shielding	AL	
3	VBAT wires	Conductor	Strand structure	48*0.10mm	2*24AWG
			Conductor material	Tinned wire	
			Conductor diameter	0.8mm Ref.	
		Insulation	Insulation material	PE	
			Insulation thickness	0.20mm Nom,0.17mm Min.	
			Insulation diameter	1.2±0.05mm	
			Insulation color	Red	
4	GND wires	Conductor	Strand structure	61*0.10mm	2*21AWG, Bared.
			Conductor material	Tinned wire	

			Conductor diameter	0.9mm Ref.	
5	Kevlar	Strength Member	15*1100dtex		
6	Shielding		AL ,Wrapped the inner optical fiber and copper wires. Coverage 100% and Overlap 20% MIN.		
7	Outer Jacket	Material	Black PVC (5823N-55P-5A)		
		Diameter	4.9±0.2mm		
		Thickness	0.70±0.1mm		
		Marking	“USB3□ Ultra□Hybrid□ Cable□缆 号□xxxxm”		



1. Sub cable 2. STP 线 3. Vbus 4. Gnd 5. Kevlar 6.AL 7.Outer sheath

Item	Contents	Value	Supplement		Other
1	Sub cable	Bend Robust fiber	Fiber type	OM1 multimode fiber	(Two cores)
			Core diameter	62.5±2.5 μm	
			Cladding diameter	100±2.5 μm	
			P-coating diameter	125±2 μm	
			Coating diameter	245±7 μm	
			Color layer diameter	252±7 μm	
		Sub cable Jacket	Sub Cable OD	1.20±0.05mm	/
			Jacket material	white LSZH FRPO	
2	STP 线	Conductor	Strand structure	7*0.10mm	3*30AWG
			Conductor material	Tinned wire	
			Conductor diameter	0.30mm Ref.	
		Insulation	Insulation material	FEP	
			Insulation thickness	0.21mm Nom,0.18mm Min.	
			Insulation diameter	0.72±0.05mm	
			Insulation color	White /Green	
		Twisted pair	Drainage line	7*0.10mm	
			Conductor material	Tinned wire	
			Shielding	AL	
3	VBAT wires	Conductor	Strand structure	48*0.10mm	2*24AWG
			Conductor material	Tinned wire	
			Conductor diameter	0.8mm Ref.	
		Insulation	Insulation material	FEP	
			Insulation thickness	0.20mm Nom,0.17mm Min.	
			Insulation diameter	1.2±0.05mm	
			Insulation color	Red	
4	GND wires	Conductor	Strand structure	61*0.10mm	2*21AWG,
			Conductor material	Tinned wire	Bared.
			Conductor diameter	0.9mm Ref.	
5	Kevlar	Strength Member	15*1100dtex		
6	Shielding		AL ,Wrapped the inner optical fiber and copper wires. Coverage 100% and Overlap 20% MIN.		
7	Outer Jacket	Material	Black TPU (1190B- ESS-1658S)		
		Diameter	4.9±0.2mm		
		Thickness	0.70±0.1mm		
		Marking	“USB3□ Ultra□ High□ Flex□ Hybrid□ Cable□缆号□xxxxm”		

Cable Dimension