SODAVISION
machine vision. imaging technologies.

USB3.1 Gen1 High Flex Hybrid AOC Cable

Brand	SKU / Part Number	Product Description
SODA	**USB3-3.0M-FO-HF v2**	3m USB3.1GEN1 Hybrid AOC, Type A male to Micro B male with locking screw at both ends, Metal Housing
SODA	**USB3-5.0M-FO-HF v2**	5m USB3.1GEN1 Hybrid AOC, Type A male to Micro B male with locking screw at both ends, Metal Housing
SODA	**USB3-10.0M-FO-HF v2**	10m USB3.1GEN1 Hybrid AOC, Type A male to Micro B male with locking screw at both ends, Metal Housing
SODA	**USB3-15.0M-FO-HF v2**	15m USB3.1GEN1 Hybrid AOC, Type A male to Micro B male with locking screw at both ends, Metal Housing
SODA	**USB3-20.0M-FO-HF v2**	20m USB3.1GEN1 Hybrid AOC, Type A male to Micro B male with locking screw at both ends, Metal Housing

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1 Specification

Physical Specification

Host Side	USB3.0 Standard-A Plug(with locking screw)
Device Side	USB3.0 Micro B Plug （with locking screw）
Dimension of The End	34mm/26mm/8mm
	36mm/22mm/8.3mm
Net Weight (Typical 10m)	430g
Cable Diameter	4.8mm
Cable Length	Up to 20m
Option Cable length	3m / 5m / 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	-10~+50°C/-40~+85°C
Operating/Storage humidity	20%~80% RH/20%~80% RH

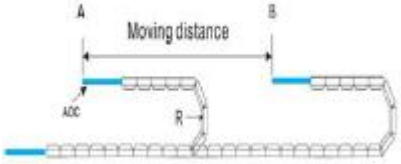
Electrical Specification

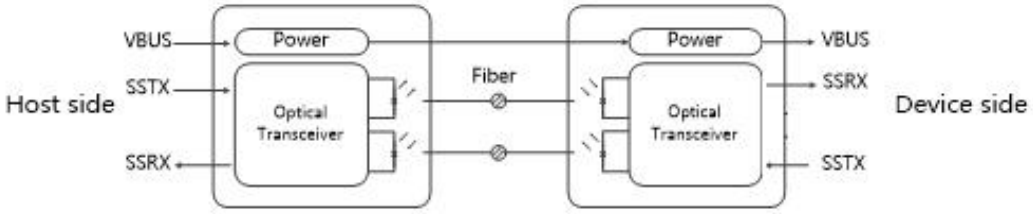
Input Power(Host Side)：	
-Input Voltage	4.75~5V
-Current(max)	200mA
-Power Consumption (max)	0.94W
Output Power(Device Side)：	
-Output Voltage	＞4V
-Current(max)	900mA(0-15m), 600mA(20m)

General Information

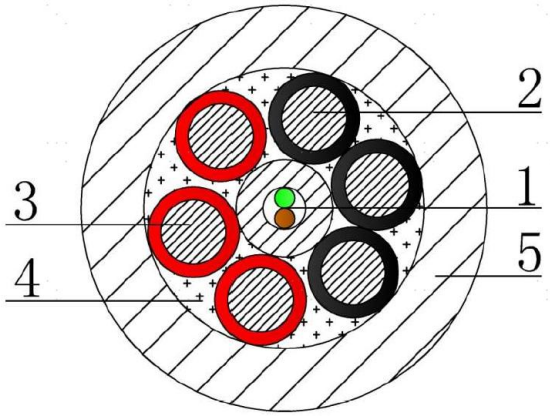
ROHS2.0	Yes
CE/FCC	Yes
Warranty	1 year

2 Reliability Test

No.1	Item	Test Description	Pass/Fail Criteria
1	Cable high Flexibility test 	Bending Stroke(mm): 1000 Bending Cycle: A→B→A Bending Velocity V(cycle/min): 88 Ambient Temperature: 25℃ Bending Radius (mm): 5D Duration:>20million cycles	No bit error had been detected by AOC tester after High Flexibility test

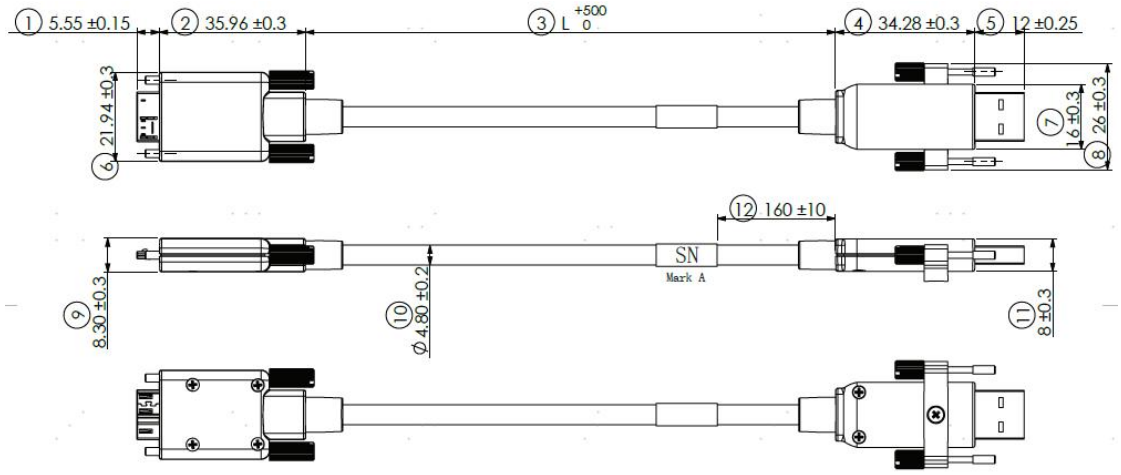


3 Fiber Specification



Item	Contents	Value	Supplement
1	Fiber	OM1	2 cores
2	Black HDPE Jacket Copper Wires	21*0.15, 0.8mm Ref.	Twist structure
3	Red HDPE Jacket Copper Wires	21*0.15, 0.8mm Ref.	Twist structure
4	Kevlar	Strength Member	4*1610dtex
5	Outer Jacket	Black TPU	OD: 4.8±0.2mm

4 Cable Dimension



5 Application (Possible but not limited)

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