

# ALYSIUM

USB 3.1 Gen 1 Active Optical Cable

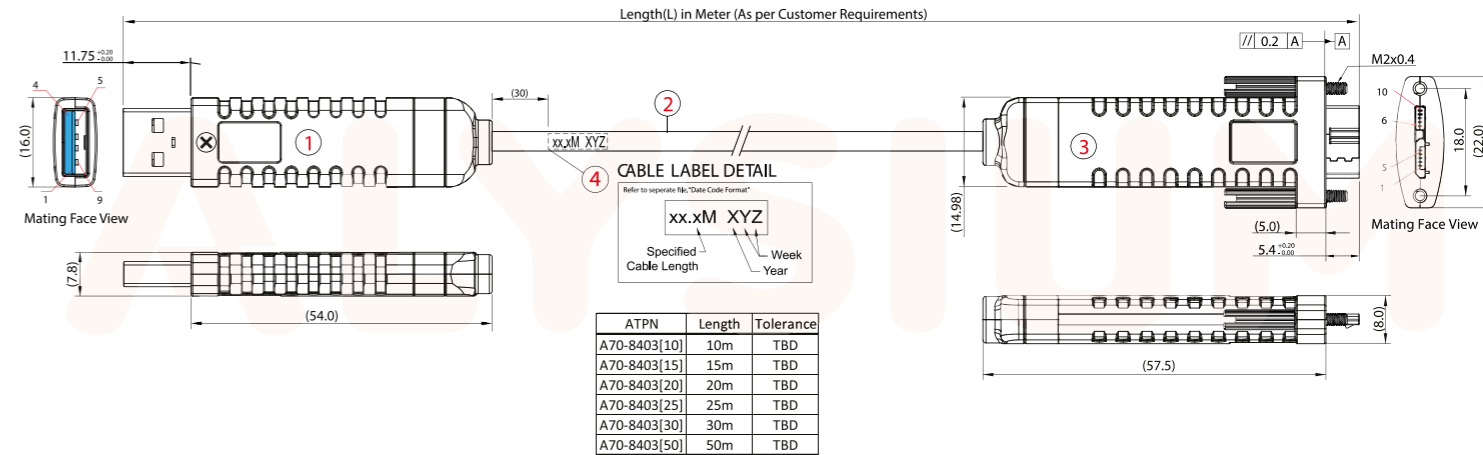


by  
CORNING™

**Part Number(s)**

**Product Description**

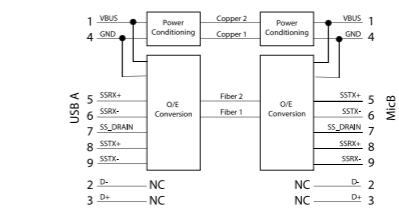
A70-8403[5]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 5m
A70-8403[10]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 10m
A70-8403[15]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 15m
A70-8403[20]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 20m
A70-8403[25]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 25m
A70-8403[30]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 30m
A70-8403[50]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 50m



**BILL OF MATERIALS**

Item	Description
1	USB A AOC (OD3.6 DCT)
2	USB AOC cable
3	USB MicB AOC Hsl(OD3.6 DC)
4	Cable Label
5	Heat Sealed PE Bag (TBD)

**WIRING DIAGRAM**



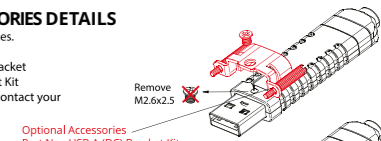
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**RoHS COMPLIANT**

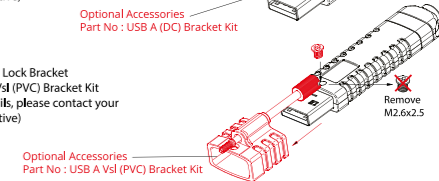
**OPTIONAL ACCESSORIES DETAILS**

Sold separately as accessories.

1) Horizontal Screw Lock Bracket  
Part No : USB A (DC) Bracket Kit  
(For further details, please contact your sales representative)



2) Vertical Screw Lock Bracket  
Part No : USB A Vsl (PVC) Bracket Kit  
(For further details, please contact your sales representative)



# USB 3.1 Gen 1 Active Optical Cable

## Features and Benefits

- › Supports USB 3.1 Gen 1 (5 Gb/s) data transfer up to 50 m over fiber optic cable
- › Host connector: USB Type-A plug Device connector: USB Micro-B plug with USB 3 Vision locking screws
- › Attached device can be powered through the cable
- › 850 nm VCSEL transmitter, PIN photodiode receiver
- › Computer plug and play for USB devices, no driver or software to install
- › Operating temperature (case surface): 5°C to 70°C
- › All-metal housing for superior EMI performance

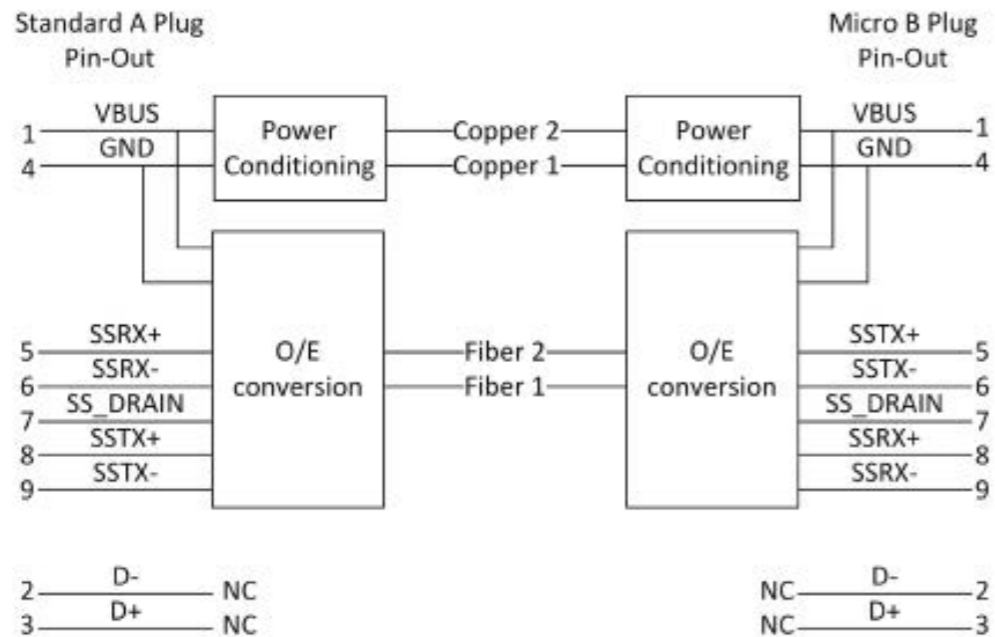


## Applications

- › Machine Vision Cameras
- › Any USB link requiring extended distance or repetitive cable bending

## Description

The Alysium USB 3.1 Industrial Active Optical™ Cable (AOC) is used to transmit 5 Gb/s USB protocol extended distances up to 50 meters from the host computer over a composite copper-optical fiber cable. The AOC assembly connects to the host through USB 3.1 Type-A plug and to the device through a USB 3.1 Micro-B plug with locking screws compatible with the USB 3 Vision standard. The assembly supports 5 Gb/s USB 3.1 Gen 1 transmission only, and is not backward compatible with USB 1.X or USB 2 hosts or devices. The cable draws power to operate from the host port, and a connected device may also be powered directly through the cable from the host USB port via copper wires in the cable.



### WIRING SCHEMATIC

Note: Pin Numbers as per Universal Serial Bus 3.1 Specification

Pin designation of A connector is from Host perspective, and pin designation from B connector is from Device perspective.

### ABSOLUTE MAXIMUM RATINGS

(permanent damage may occur if cable is subjected to conditions beyond these limits)

Parameter	Parameter	Min	Max	Units
Vbus_max	Supply voltage	-0.50	5.5	V
Vss_max	Voltage on signal pins	-0.50	1.6	V
T_stg	Storage temperature	-40	90	°C
V_ESD	Electrostatic discharge, power and signal pins (HBM)		2	kV

### ENVIRONMENTAL SPECIFICATIONS

Parameter	Parameter	Min	Max	Units
Tambient	Ambient temperature (informative) <sup>1</sup>	5	50	°C
Tcase	Temperature of connector housing <sup>2</sup>	5	70	°C
RH	Relative humidity (noncondensing)	5	95	%

1) Case temperature is 20°C higher than ambient temperature for a single cable running at maximum electrical load connected to a typical host. The case temperature takes precedence over ambient temperature. 2) At case temperatures above 60°C, proper safety precautions should be taken when handling the metal connector shells by hand, due to burn risks (reference IEC 60950-1).

## USB 3.1 AOC ELECTRICAL SPECIFICATIONS (DC)

Parameter	Parameter	Min	Typ	Max	Units
Vbus_A	Required supply voltage (from host)	4.75	5.00	5.25	V
Vbus_A_noise	Supply voltage ripple and noise (0-10 GHz)			100	mVpp
Vbus_B	Output supply voltage (from cable to device)	4.75	5.05	5.15	V
Condition 1: no load, self-powered device					
lbus_act_noload	Active mode current consumption (powered from Host)	75	85	100	mA
lbus_idle	Current consumption (idle mode, each end)		1	2	mA

Parameter	Parameter	Min	Typ	Max	Units
Condition 2: USB 3.0-compliant port (900 mA current limit)					
lbus_B_std	Maximum current supplied to device	600		700	mA
lbus_A_std	Current drawn from host port at maximum device supply current			900	mA
Condition 3: USB 3.0 charging port ( $\geq 1500$ mA current limit)					
lbus_B_ch	Maximum current supplied to device <sup>1</sup>	900	950	1050	mA
lbus_A_ch_max	Current drawn from host port at maximum device supply current		1500		mA
lbus_A_ch_nom	Current drawn from host port at 900 mA device supply current		1300	1400	mA

1) Controlled by current-limiting switch within the active optical cable

## USB 3.1 AOC ELECTRICAL SPECIFICATIONS (AC)

Parameter	Parameter	Min	Typ	Max	Units
DR	Bit error rate (BER < 10 <sup>-12</sup> , USB 3.1 Gen 1 SS only)		5		Gb/s
tr	Rise time (20-80%), data output		25	35	ps
tf	Fall time (80-20%), data output		25	35	ps
Vout_diff	Differential output swing	0.8	1.0	1.2	V
DJ	Deterministic jitter (K28.5 pattern)		10	22	ps
RJ	Random jitter		0.8	1.4	ps <sub>rms</sub>

## CABLE MECHANICAL SPECIFICATIONS

Parameter	Parameter	Min	Typ	Max	Units
OD	Cable outer diameter	2.95	3.1	3.3	mm
BR <sub>static</sub>	Static bend radius	20			mm
BR <sub>dynamic</sub>	Dynamic bend radius	10			mm
BC	Bending cycles unsupported	10 M			cycles
	Bending cycles 45 mm radius C-track <sup>1</sup>	9 M			cycles
	Bending cycles 38 mm radius C-track <sup>1</sup>	9 M			cycles
TC	Torsion cycles (+/- 180°)	1 M			cycles
TF	Tensile force (bulk cable)			120	N
	Tensile force (connector assembly)			80	N
Crush	TIA/EIA-455-41A			100	N/cm
Flame Rating	UL-1581-VW-1				

1) Cable failure is due to jacket abrasion and not internal component failure (copper wires or optical fiber). Actual cable performance in customer application is therefore dependent on mechanical conditions within the drag chain/energy chain or other mechanical cable routing and management systems.

## CABLE MECHANICAL SPECIFICATIONS

Standard	Description	SPECIFICATION	PERFORMANCE CRITERION
IEC 61000-6-2			
IEC 61000-4-4	Fast transients (capacitive clamp test)	+/- 1000 Vpk	A
IEC 61000-4-6	RF common mode conducted immunity	10 V	A
IEC 61000-4-2	ESD – Contact Discharge	+/- 4 kV	B
	ESD – Air Discharge	+/- 8 kV	B
EN55032:2015	EM compatibility of multimedia equipment – emission requirements	Class B	
FCC 47 CFR Part 15	Subpart B	Class B	
ICES-003 Issue 6			
IEC 60950-1:2005	Second Edition; Am1:2009 + Am2:2013		
IEC 60825-1:2014 1	This product has been classified as a Class 1 laser product according to IEC 60825-1:2014		

1) Complies with 21 CFR 1040.10 and 1040.11 except for the deviations pursuant in Laser Notice 50, 24 June 2007

\*) The product is connected between a USB host and a USB hub or between a USB hub and a USB device. No user intervention is required and the part contains no user-serviceable components. Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure.

## ORDERING INFORMATION

Part Number(s)	Product Description
A70-8403[5]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 5m
A70-8403[10]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 10m
A70-8403[15]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 15m
A70-8403[20]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 20m
A70-8403[25]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 25m
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A70-8403[50]	USB 3.1 Active Optical Cable, A plug to Micro-B Hsl plug, 50m



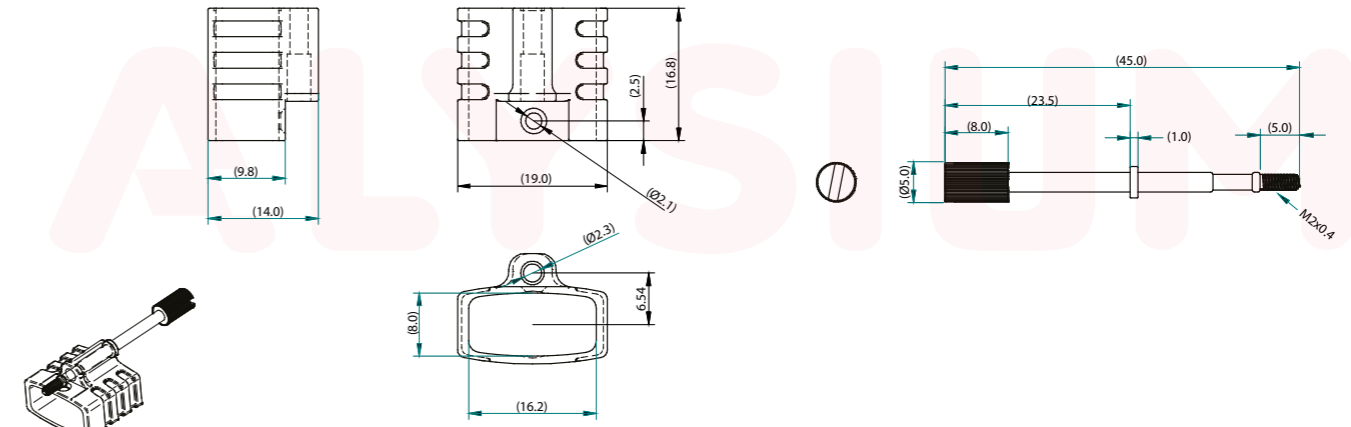
## Accessory

### › USB A Vertical Screwlocking Hood

Part No: USB **A** Vsl PVC Brkt Kit

### › USB A Horizontal Screwlocking Bracket

Part No: USB **A** (DC) Bracket Kit



3D View

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**RoHS COMPLIANT**

**BILL OF MATERIALS**

Item	Description
1	USB A Vsl Bracket (PVC) Colour = PANTONE 1797 C/U CMYK 0/100/95/5 RGB 220/7/20
2	Thumbscrew M2, Material = Steel, Nickel Plate
3	M2.5x3.0 Flat Head Screw
4	Heat Seal PE Bag
5	Small Heat Seal PE Bag (60 x 80mm)

**Note :**  
 This detachable PVC Hood can be matched with  
 1) USB A 3.0 (OD5.8 DCT)  
 2) USB A 3.0 (OD7.3 DCT)  
 3) USB A AOC (OD3.6 DCT)

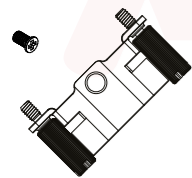
E.g. - installed on USB A AOC (OD3.6 DCT)

**PACKAGING DETAIL**

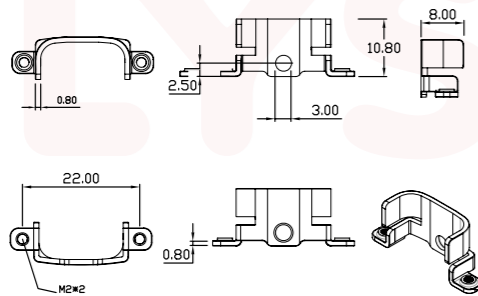
4 Contains qty 50pcs (Maximum) per sealed PE bag.  
 5 Each small PE Bag Contains item ①+②+③



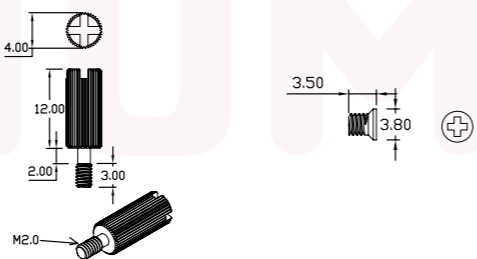
DRAWING REF: **USB A (DC) Bracket Kit**  
 DRAWING REF: USB A Die Cast Bracket Kit  
 00 (WON 170907) Initial Issue



1 Set Per Bag



Metal Sheet Bracket



Thumb Screw (M2)

M2.6 x 5.0mm Flat Head Screw



**A+ USB A Bracket Accessories**

Metal Sheet Bracket	1pc
Thumb Screw (M2)	2pc
M2.6 x 5.0mm Flat Head Screw	1pc

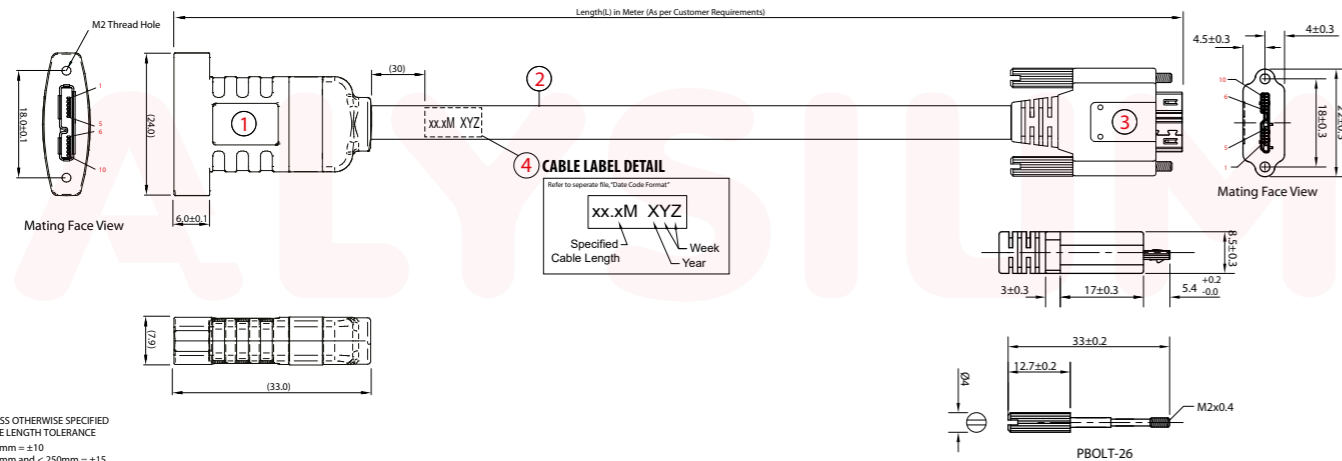
## Accessory

### › Adapter Cables

## ORDERING INFORMATION

Part Number(s)	Product Description
A74-7231[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl
A74-8788[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A1
A74-3775[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A32
A74-5959[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A34
A74-8431[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A14
A74-9245[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A3
A74-7367[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB MicB 3.0 sl 90D A12
A74-6546[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB B 3.0
A74-7349[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB C sl (OD6.2)
A74-8013[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB C (OD6.2)
A74-3170[0.3]	USB MicB 3.0 F Panel Mount (DC) // A86-4730(T) // USB A 3.0

DRAWING REF: **A74-7231**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)



UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

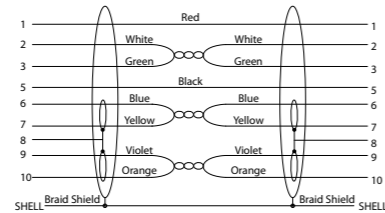
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**RoHS COMPLIANT**

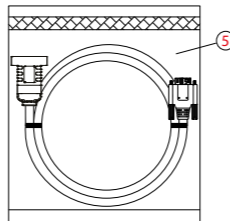
**BILL OF MATERIALS**

Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) UL2725 25TP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
3	USB MicB 3.0 sl 10 pin Moulded Plug with Screw Locking <BLK>
4	Cable Label
5	Heat Sealed PE Bag (Note : Item 1+2 is A74-7773)

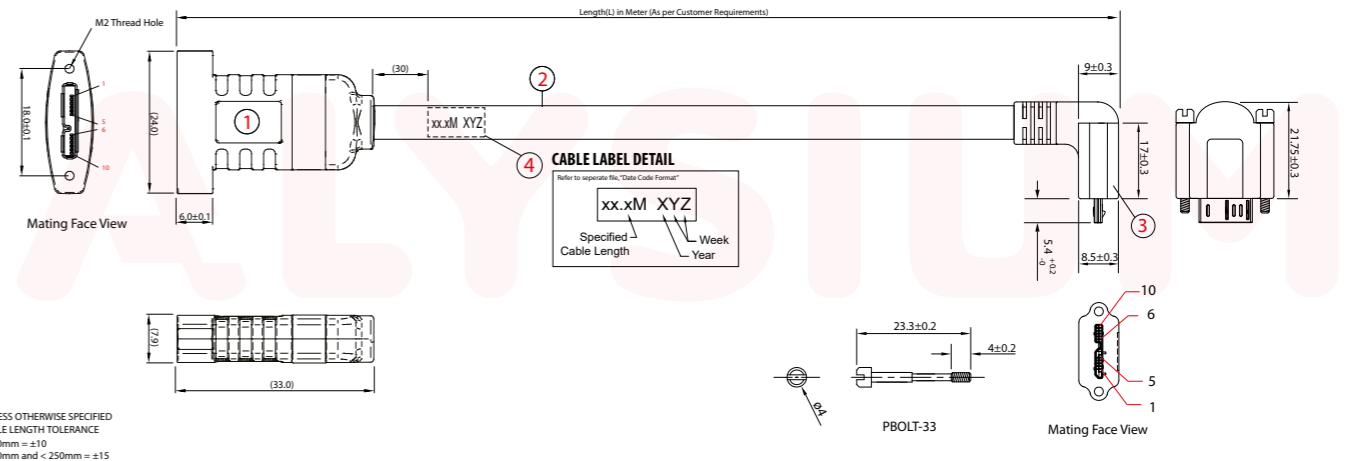
**WIRING DIAGRAM**



**PACKAGING DETAIL**



DRAWING REF: **A74-8788**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180322) Initial Issue  
 01 (Chua 180710)



UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

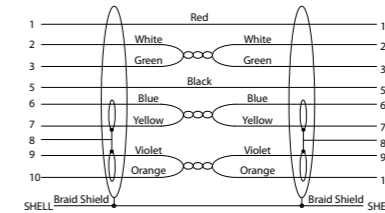
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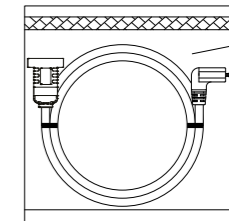
**BILL OF MATERIALS**

Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) UL2725 25TP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
3	USB MicB 3.0 sl 90D A1 10 pin Moulded Plug with Screw Locking <BLK>
4	Cable Label
5	Heat Sealed PE Bag (Note : Item 1+2 is A74-7773)

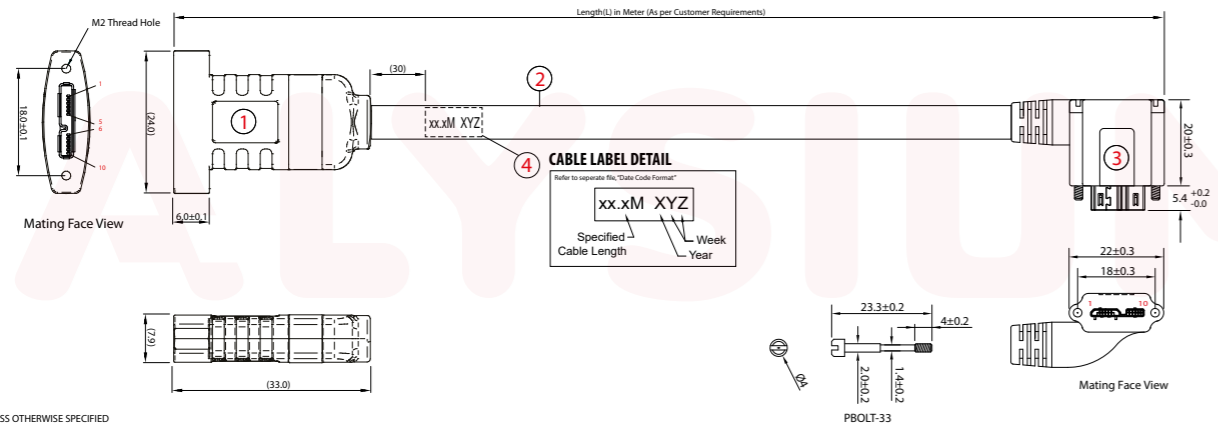
**WIRING DIAGRAM**



**PACKAGING DETAIL**



DRAWING REF: **A74-3775**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)



UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

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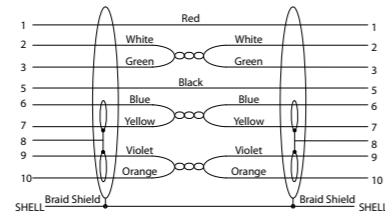
**RoHS COMPLIANT**

**BILL OF MATERIALS**

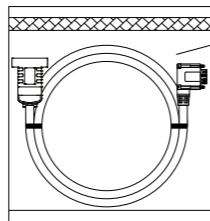
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T)
3	UL2725 25TP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
4	USB MicB 3.0 sl 90D A32
5	10 pin Moulded Plug with Screw Locking <BLK>
6	Cable Label
7	Heat Sealed PE Bag

(Note : Item 1+2 is A74-7773)

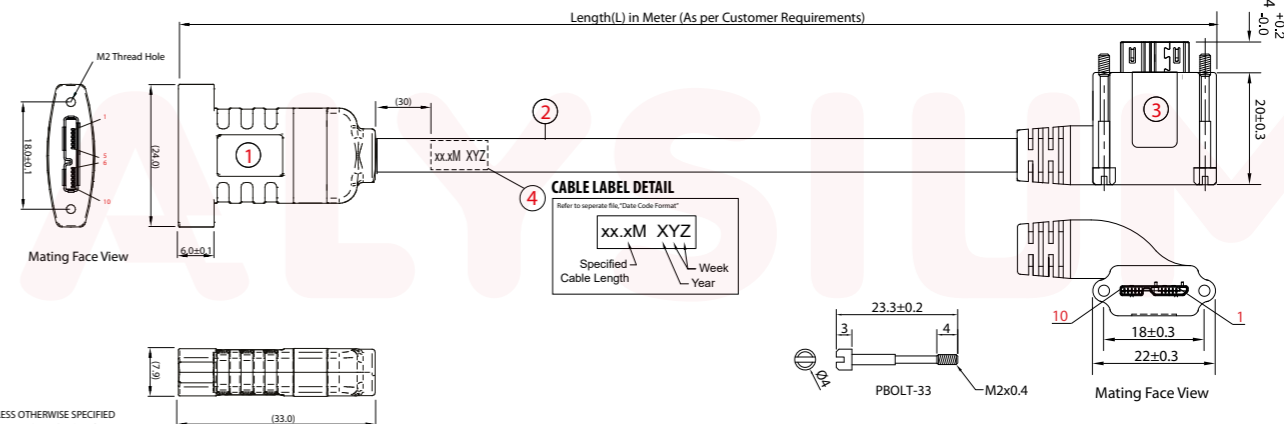
**WIRING DIAGRAM**



**PACKAGING DETAIL**



DRAWING REF: **A74-5959**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)



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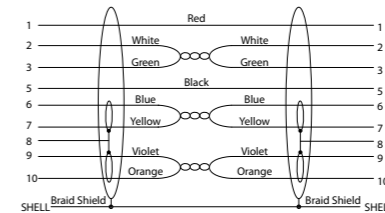
**RoHS COMPLIANT**

**BILL OF MATERIALS**

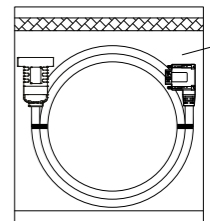
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T)
3	UL2725 25TP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
4	USB MicB 3.0 sl 90D A34
5	10 pin Moulded Plug with Screw Locking <BLK>
6	Cable Label
7	Heat Sealed PE Bag

(Note : Item 1+2 is A74-7773)

**WIRING DIAGRAM**

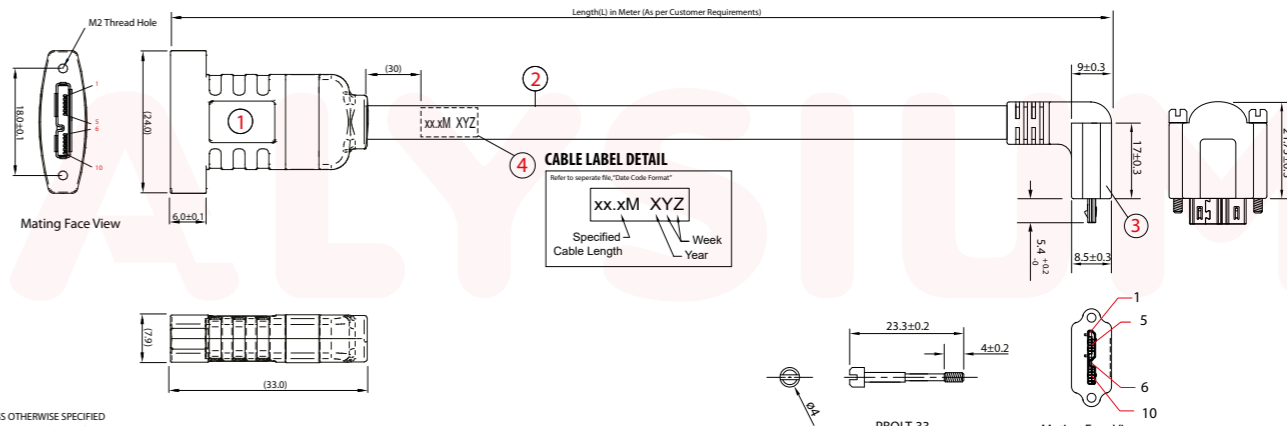
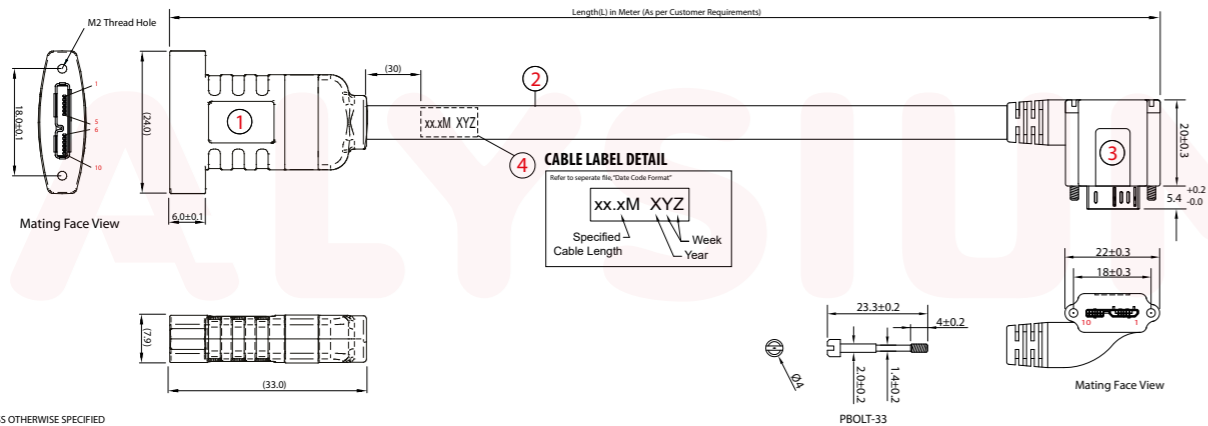


**PACKAGING DETAIL**



DRAWING REF: **A74-8431**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)

DRAWING REF: **A74-9245**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)



UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
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 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

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 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
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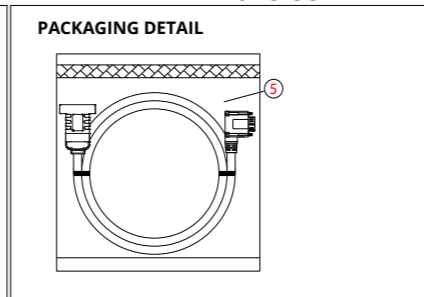
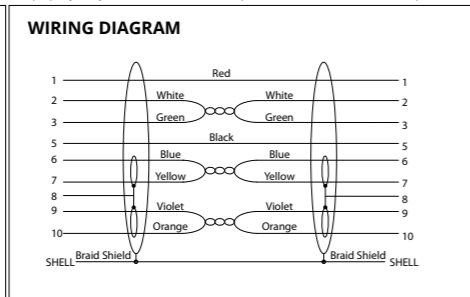
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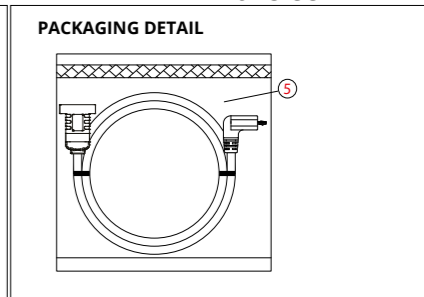
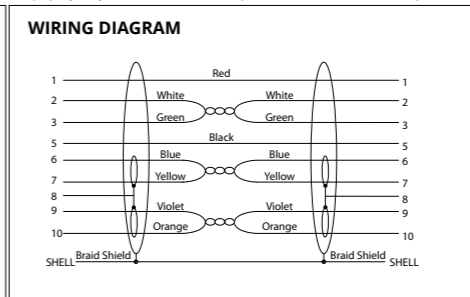
**RoHS COMPLIANT**

**RoHS COMPLIANT**

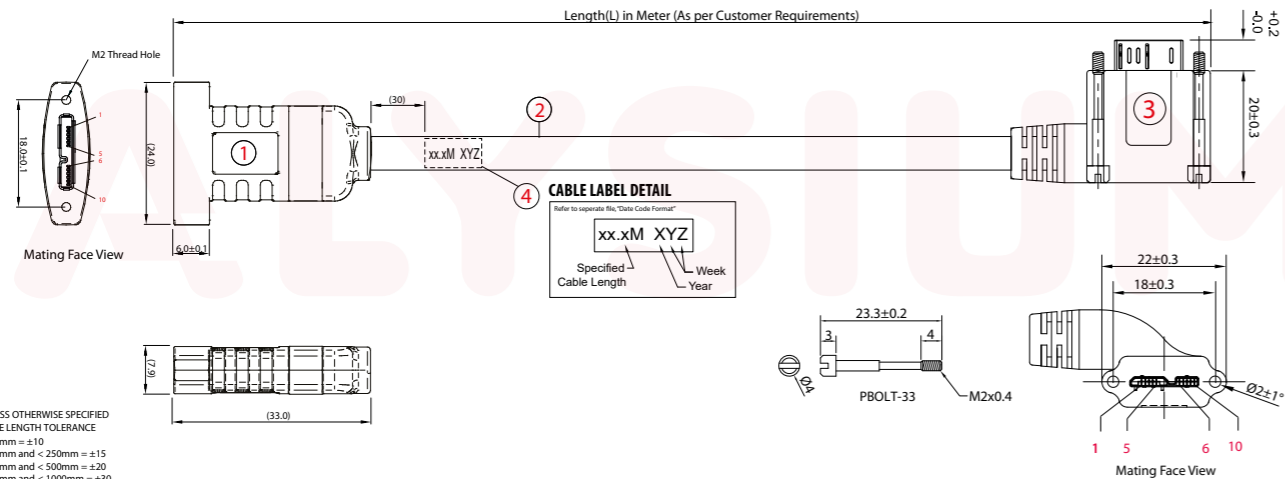
BILL OF MATERIALS	
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) UL2725 2STP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
3	USB MicB 3.0 sl 90D A14 10 pin Moulded Plug with Screw Locking <BLK>
4	Cable Label
5	Heat Sealed PE Bag
(Note : Item 1+2 is A74-7773)	



BILL OF MATERIALS	
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) UL2725 2STP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
3	USB MicB 3.0 sl 90D A3 10 pin Moulded Plug with Screw Locking <BLK>
4	Cable Label
5	Heat Sealed PE Bag
(Note : Item 1+2 is A74-7773)	



DRAWING REF: **A74-7367**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180322) Initial Issue  
 01 (Chua 180710)



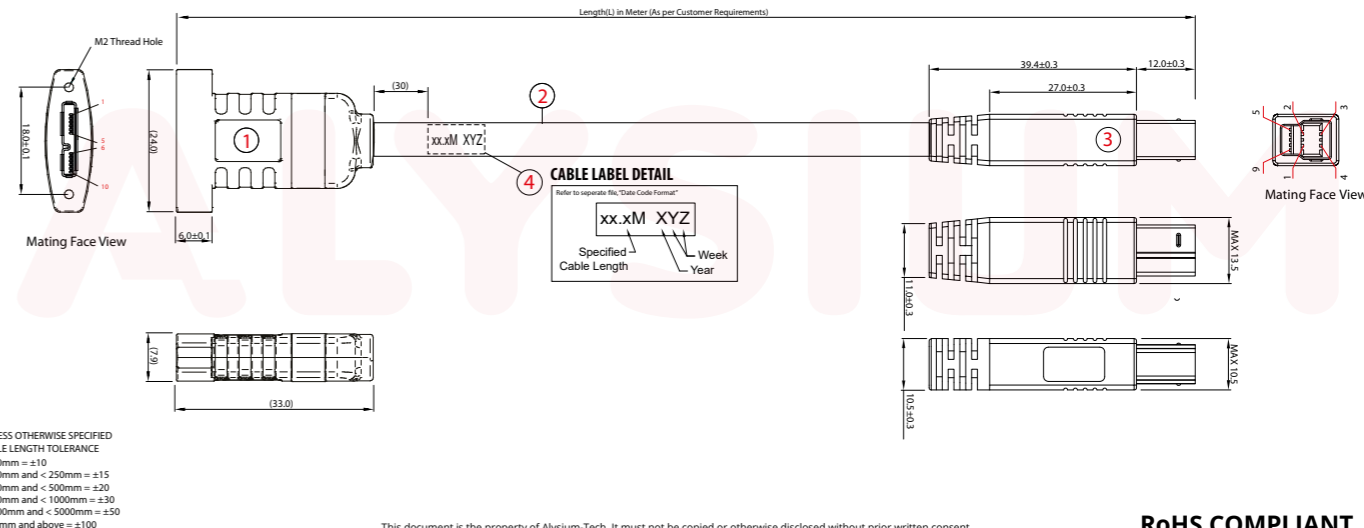
UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

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**RoHS COMPLIANT**

BILL OF MATERIALS		WIRING DIAGRAM		PACKAGING DETAIL	
Item	Description	1	Red	1	
1	USB MicB 3.0 F Panel Mount (DC)	2	White	2	
2	A86-4730(T)	3	Green	3	
3	UL2725 2STP(#26x2C)+STP#28+2C#22 [OD=6.2mm]	4	Black	4	
4	USB MicB 3.0 SI 90D A12	5	Blue	5	
5	10 pin Moulded Plug with Screw Locking <BLK>	6	Yellow	6	
6	Cable Label	7	Orange	7	
7	Heat Sealed PE Bag	8	Violet	8	
(Note : Item 1+2 is A74-7773)		9	Orange	9	
		10	Orange	10	

DRAWING REF: **A74-6546**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue  
 01 (Chua 180710)



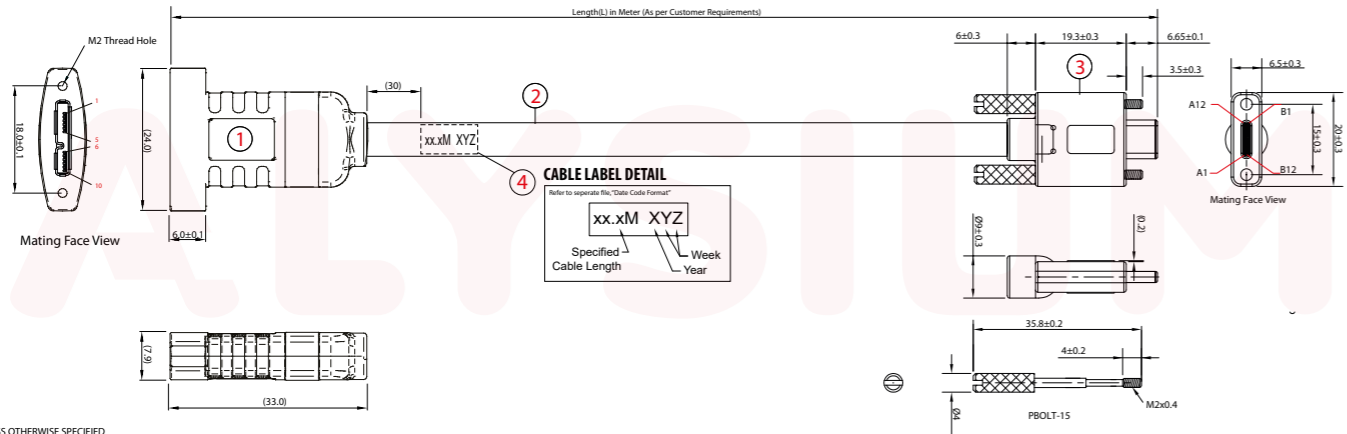
UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

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**RoHS COMPLIANT**

BILL OF MATERIALS		WIRING DIAGRAM		PACKAGING DETAIL	
Item	Description	1	Red	1	
1	USB MicB 3.0 F Panel Mount (DC)	2	White	2	
2	A86-4730(T)	3	Green	3	
3	UL2725 2STP(#26x2C)+STP#28+2C#22 [OD=6.2mm]	4	Black	4	
4	USB B 3.0 (W10.5) Moulded <BLK>	5	Blue	5	
5	Cable Label	6	Yellow	6	
6	Heat Sealed PE Bag	7	Orange	7	
(Note : Item 1+2 is A74-7773)		8	Violet	8	
		9	Orange	9	
		10	Orange	10	

DRAWING REF: **A74-7349**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (Chua 180622) Initial Issue

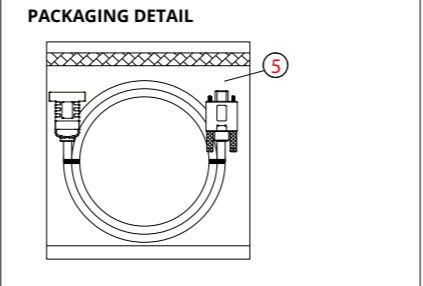
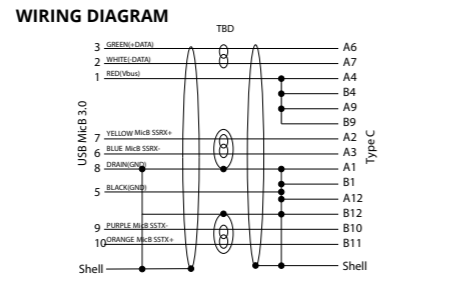


UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

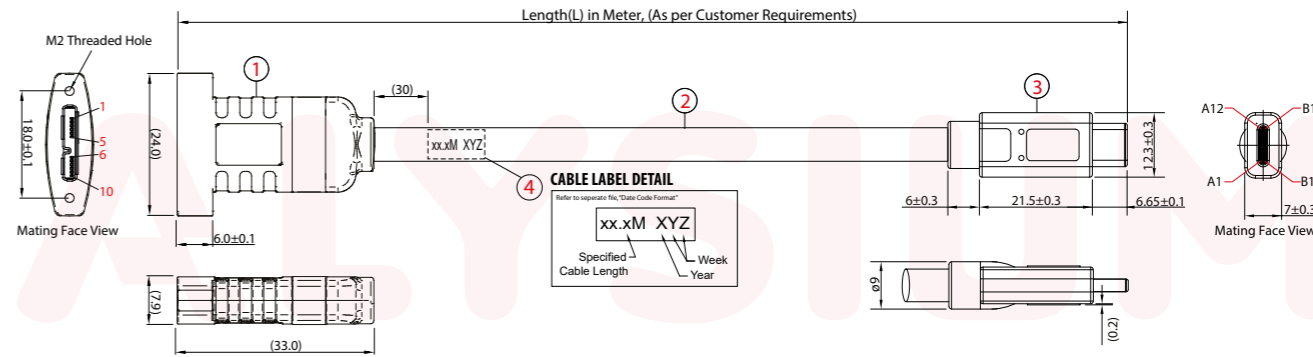
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**RoHS COMPLIANT**

BILL OF MATERIALS	
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) UL2725 2STP(#26x2C)+STP#28+2C#22 [OD=6.2mm]
3	USB C sl (OD6.2) Moulded <BLK>
4	Cable Label
5	Heat Sealed PE Bag (Note: Item 1+2 is A74-7773)



DRAWING REF: **A74-8013**  
 DRAWING REF: USB 3.0 Industrial Assembly  
 REVISION: 00 (KH 190228) Initial Issue

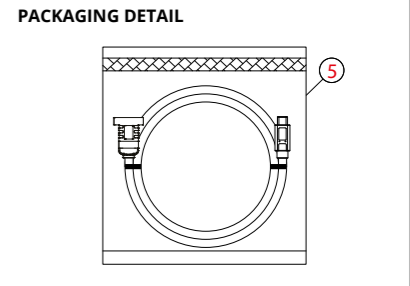
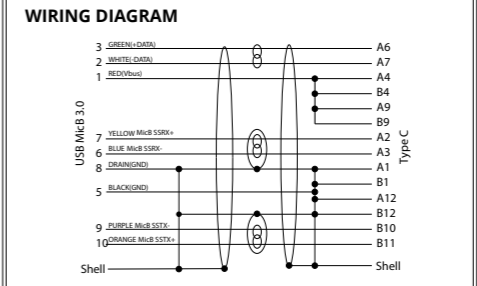


UNLESS OTHERWISE SPECIFIED  
 CABLE LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
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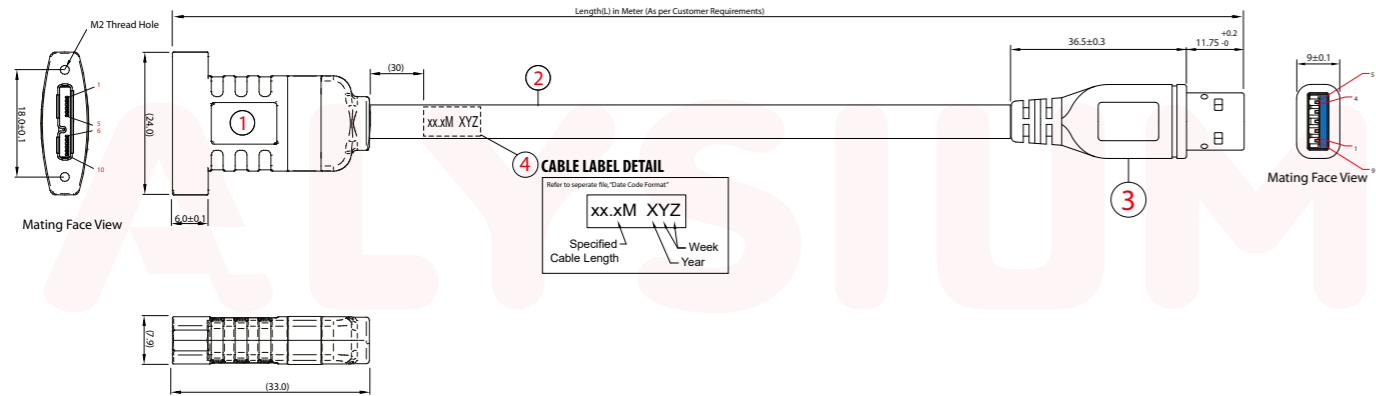
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**RoHS COMPLIANT**

BILL OF MATERIALS	
Item	Description
1	USB MicB 3.0 F Panel Mount (DC)
2	A86-4730(T) <BLK> UL2725 2STP(2C#26)+STP#28+2C#22 [OD=6.2mm]
3	USB C (OD6.2) Moulded <BLK>
4	Cable Label
5	Heat Sealed PE Bag (Note: Item 1+2 is A74-7773)



DRAWING REF: **A74-3170**  
 DRAWING REF: USB 3.0 Industrial Assy  
 REVISION: 00 (Chua 181220) Initial Issue



UNLESS OTHERWISE SPECIFIED  
 ASSY LENGTH TOLERANCE  
 < 150mm = ±10  
 ≥ 150mm and < 250mm = ±15  
 ≥ 250mm and < 500mm = ±20  
 ≥ 500mm and < 1000mm = ±30  
 ≥ 1000mm and < 5000mm = ±50  
 5000mm and above = ±100

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**RoHS COMPLIANT**

BILL OF MATERIALS		WIRING DIAGRAM		PACKAGING DETAIL	
Item	Description	MicB Female	USB A	5	
1	USB MicB 3.0 F Panel Mount (DC)	1	Red		
2	A86-4730(T)	2	White		
3	UL2725 25TP(#26x2C)+STP#28+2C#22 [OD=6.2mm]	3	Green		
4	USB A 3.0 Moulded Plug <BLK>	4	Black		
5	Cable Label	5	Blue		
	Heat Sealed PE Bag	6	Yellow		
	(Note : Item 1+2 is A74-7773)	7	Violet		
		8	Orange		
		9	Orange		
		10	Braid Shield	SHELL	SHELL





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