

The A+ USB3 cable you provided me, outperformed (in an application relevant way) every cable we have ever used. I'm impressed. R. Wiley (3SAE)

>> Alysium cables have performed far beyond our expectations, providing outstanding reliability in a noisy environment where other cables failed. Justen Hyde (Emergent Design Ltd)

Our A+ Family includes

Rj45, USB3 & BRJE

Discover more: www.alysium.com

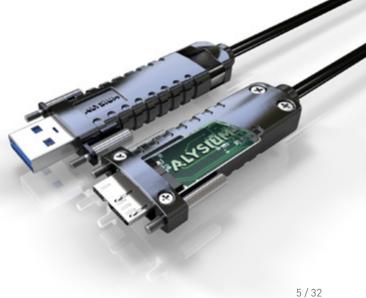


USB 3.1



Features

-) Market leading Industrial Die-Cast Design.
- > 360° EMI Protection.
-) USB A, B and Type C with unique screwlock bracket (design protected).
- **)** Additional vertical screwlock accessories available for USB A and Type C.
- > 100% tested in Production.
- > Available from Stock (GER).
-) Compliant to the U3V(+) Standard.



A+ Products

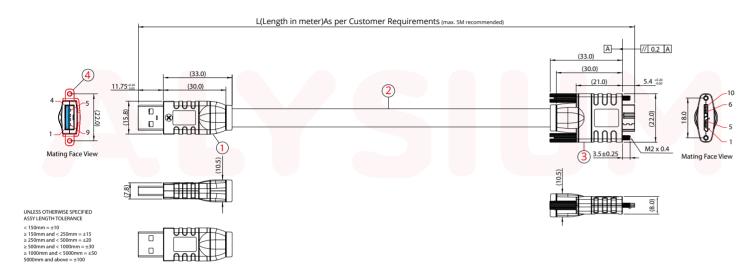
Interface: A+ USB3.1 Gen1 (copper)

Part Number(s)	Product Description	1 M	2M	3M	4M	5M	8M	10M
A74-9968[X]	A+ USB A (screwlock bracket) // A+ USB micro B (screwlock)		Х	Х		Х		
A74-0147[X]	A+ USB A (screwlock bracket) // A+ USB micro B (screwlock) Ext. Length Passiv					(X)	Х	X*
A74-8823[X]	A+ USB A (screwlock bracket) // A+ USB micro B (screwlock bracket) High Flex (copper)		Х	Х	Х	X*		
A74-6659[X]	A+ USB A (screwlock bracket) // A+ USB B (screwlock bracket)	X	Χ	Х		X		
A74-9857[X]	A+ USB A (screwlock bracket) // A+ USB Type C (screwlock bracket)	X	Х	Х		Х		

Interface: A+ USB3.1 Gen1 (active optical)

Part Number(s)	Product Description	5M	10M	15M	20M	25M	50M	
A70-8403[X]	A+ USB A (screwlock bracket) // A+ USB micro B (screwlock) AOC Highflex / Torsional	Χ	Χ	Х	Χ	Χ	Х	

(WON 170425) Initial Issue



ROHS COMPLIANT

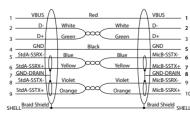
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BILL OF MATERIALS

Item Description

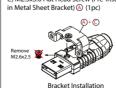
- 1 A+ USB A 3.0 (OD5.8 Die Cast Threaded) Die Cast Shell incl. M2.6x2.5 screw (to be disposed, when bracket is applied)
- 2 A86-4730(T), [OD=6,2mm] <BLK>
- E357566-ALY-T UL2725 2STP(#26x2C)+STP#28+2C#22
- A+ USB MicB 3.0 sl (OD5.8 Die Cast) Die Cast Shell
- 4 USB A 3.0 (Die Cast) sl Bracket (Refer to Accessories Details)

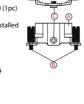
WIRING DIAGRAM



ACCESSORIES DETAILS

This Assembly/ Item @inclusive of accesories as per below shown: A) Metal Sheet Bracket for USB A 3.0 (1pc) B) M2 Thumb Screw (2pcs) C) M2.5x3.0 Flat Head Screw (Pre-Installed in Metal Sheet Bracket) (A) (1pc)

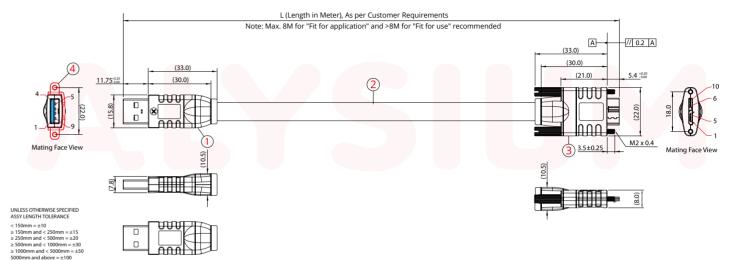




DRAWING REF: **A74-0147**

(Chua 180704)

Initial Issue



Rohs Compliant

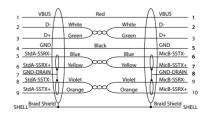
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BILL OF MATERIALS

Description

- A+ USB A 3.0 (OD8.0 Die Cast Threaded) Die Cast Shell incl. M2.6x2.5 screw (to be disposed, when bracket is applied)
- MCD-USB-213(T), [OD = 8.0mm] < BLACK>UL 20276, STP#23, 1xUSB2 UTP#24, 2C#20
- (Min. Static Bending Radius = 125mm) A+ USB MicB 3.0 sl (OD8.0 Die Cast) Die Cast Shell
- USB A 3.0 (Die Cast) sl Bracket (Refer to Accessories Details)

WIRING DIAGRAM



ACCESSORIES DETAILS

This Assembly/ Item @inclusive of accessories as per below shown: A) Metal Sheet Bracket for USB A 3.0 (1pc) B) M2 Thumb Screw (2pcs)

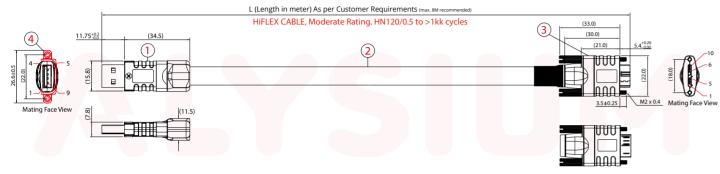
C) M2.5x3.0 Flat Head Screw (Pre-Installed in Metal Sheet Bracket) (A) (1pc)





Bracket Installation

(WON 170304)



All UNITS IN MM

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

ROHS COMPLIANT

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BILL OF MATERIALS

Item Description

A+ USB A 3.0 (OD9.45 DCT)

A87-3502 [OD=9.45mm] < VIOLET> 2xSuperSpeed Parallel Pair #26,1xUSB2 UTP#28, 2C#28

A+ USB MicB 3.0 sl (OD7.3 DC)

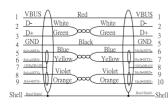
Covered with Shrink Tubing USB A (DC) Bracket (Refer to Accessories Details)

TEST SPECIFICATION

Electrical Test (Continuity, Insulation Resistance, Conductance Test) For Assembly Length < 20m For Assembly Length ≥ 20m 1) Voltage = 300VDC, 1) Voltage = 500VDC,

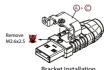
Insulation Resistance = 20MΩ 2) Insulation Resistance = 20MΩ 3) Conductance = 3Ω 3) Conductance = 5Ω

WIRING DIAGRAM



ACCESSORIES DETAILS

This Assembly/ Item @inclusive of accessories as shown below: A) Metal Sheet Bracket for USB A 3.0 (1pc) B) M2 Thumb Screw (2pcs) C) M2.5x3.0 Flat Head Screw (Pre-Installed in Metal Sheet Bracket) (A) (1pc)





A86-4730(T), [OD=6.2mm] <BLK> E357566-ALY UL2725 2STP#26 + 1P#28 + 2C#22 A+ USB B 3.0 (OD5.8 Die Cast) Die Cast Shell

BILL OF MATERIALS

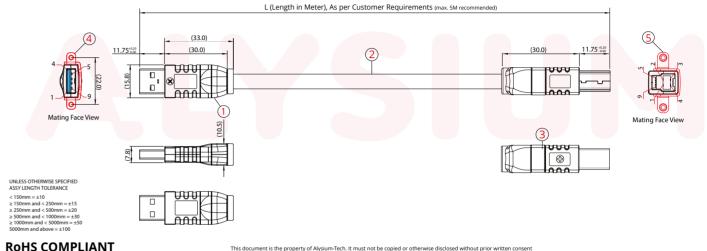
Description

USB A 3.0 (Die Cast) sl Bracket (Refer to Accessories Details)

A+ USB A 3.0 (OD5.8 Die Cast Threaded) Die Cast Shell

USB B 3.0 (Die Cast) sl Bracket (Refer to Accessories Details)

(WON 170920) Initial Issue



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WIRING DIAGRAM

4 GND

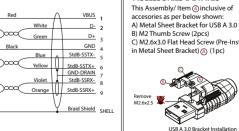
5 StdA-SSRX-

6 StdA-SSRX+

8 StdA-SSTX-

GND-DRAIN

StdA-SSTX+



accesories as per below shown: A) Metal Sheet Bracket for USB A 3.0 (1pcs) & USB B 3.0 (1pcs) B) M2 Thumb Screw (2pcs) C) M2.6x3.0 Flat Head Screw (Pre-Installed in Metal Sheet Bracket) (A) (1pc)

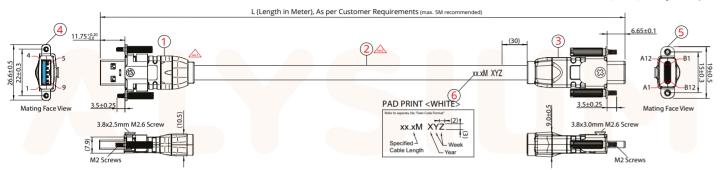
ACCESSORIES DETAILS

Alysium | A+ Product Overview

USB B 3.0 Bracket Installation

(KH 161019)

(KH 161219) Cable PN updated (KH 170110) Wiring & tolerance update



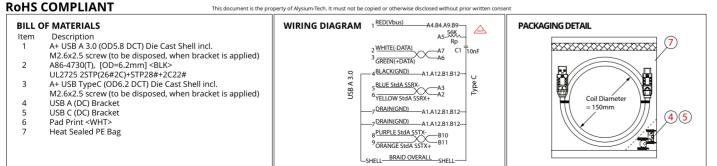
UNLESS OTHERWISE SPECIFIED

ASSY LENGTH TOLERANCE

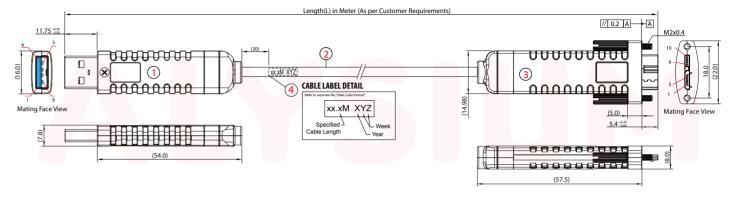
< 150mm = +50/-10 150mm and < 250mm = +50/-15 250mm and < 500mm = +50/-20 500mm and < 1000mm = +50/-30 1000mm and < 5000mm = ±50

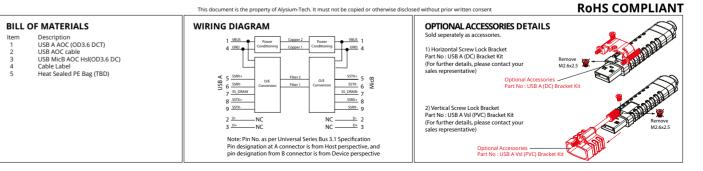
5000mm and above = ± 100

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(Chua 180327)







Accessory

) USB A Vertical Screwlocking Hood

Part No: USB A Vsl PVC Brkt Kit

) USB Type C Vertical Screwlocking Hood

Part No: USB C Vsl PVC Brkt Kit

DRAWING REF: USB A Vsl PVC Brkt Kit

DRAWING REF: USB A Vsl (PVC) Bracket Kit

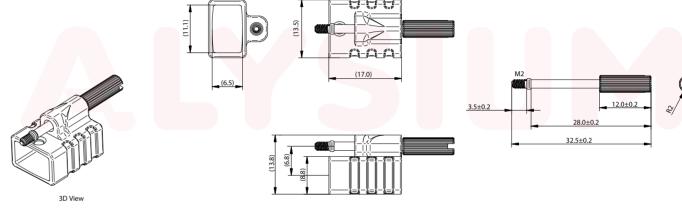
(Chua 180327) Refresh Specification USB C Vsl PVC Brkt Kit

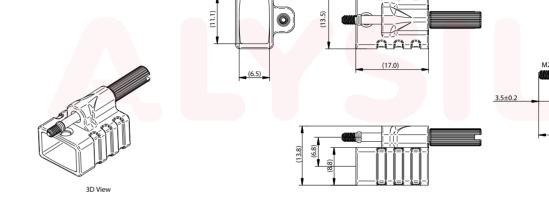
ROHS COMPLIANT

per sealed PE bag.

DRAWING REF: A+ USB C Vertical Screw Lock Bracket

(Chua 180924) Initial Issue





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ROHS COMPLIANT

BILL OF MATERIALS

Item Description

3D View

USB A Vsl Bracket (PVC) Colour = PANTONE 1797 C/U CMYK 0/100/95/5 220/7/20

(9.8) (14.0)

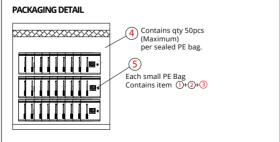
Thumbscrew M2,

Material = Steel, Nickel Plate M2.5x3.0 Flat Head Screw

Heat Seal PE Bag 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)

(16.2)



PACKAGING DETAIL BILL OF MATERIALS Note: This detachable PVC Hood can be matched with Item Description 1) USB C (OD6.2 DCT) Contains qty 50pcs USB A Vsl Bracket (PVC) (Maximum) Colour = PANTONE 1797 C/U CMYK 0/100/95/5 RGB 220/7/20 Thumbscrew M2. Material = Steel, Nickel Plate M2.6x3.0 Flat Head Screw Each small PE Bag Contains item ①+②+③ Heat Seal PE Bag Small Heat Seal PE Bag (60 x 80mm)

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E.g: installed on USB C (OD6.2 DCT)0

17/32 Alysium | A+ Product Overview

3D View

RJ45



Features

-) Market leading Industrial Die-Cast Design.
- > 360° EMI Protection.
- > Unique Screw Locking bracket design horizontal/vertical locking with one Assembly (design protected).
- > Plug length (13,11 and 9mm) according to the GigE Vision Standard with one assembly (design protected).
- > 100% tested in production.
-) 10G CAT6A.
- Torsional & C-Track tested (min. 1kk cycles).
- Available from stock (GER).
- **>** Available Length: 1M, 2M, 3M, 5M, 10M, 15M, 20M, 25M

A+ Products

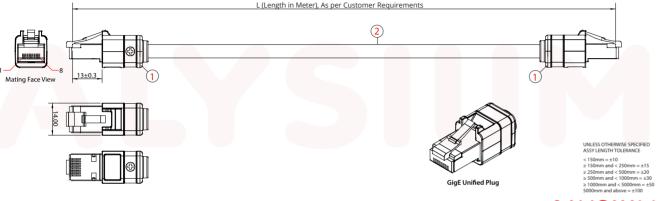
Interface: A+ Rj45

Part Number(s)	Product Description	1M	2M	3M	5M	10M	15M	20M	25M
A72-1738[X]	A+ RJ45 // A+ R45 // CAT6A 10G // screwlock + Plug lengths accesspries	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ

DRAWING REF: **A72-1738**

(WON 160805)

Specification Referesh



RoHS COMPLIANT

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ALYSIUM

BILL OF MATERIALS

Description

A+ RJ45 Unified Plug 8P8C Diecast Metal Shell

A07-0528, [OD=5.89mm] <BLK>

Halogen Free CAT7 4P x #26, Dual Shielded with LSZH TPU Jacket

Accessories (Please refer to Accessories Details):

TEST SPECIFICATION

Electrical Test (Continuity, Insulation Resistance, Conductance Test)

For Assembly Length < 20m

1) Voltage = 300VDC,

2) Insulation Resistance = 20MΩ

3) Conductance = 3Ω

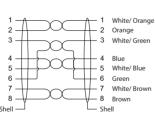
For Assembly Length ≥ 20m

1) Voltage = 500VDC,

2) Insulation Resistance = 20MΩ

3) Conductance = 5Ω

WIRING DIAGRAM



Note: All the Pair Shield connected to B. Shield

ACCESSORIES DETAILS

This Assembly/ Item (3) inclusive of accesories as per below shown:

A) Metal Sheet Bracket (1pc)

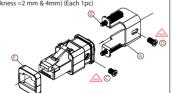
B) M2 Thumb Screw (2pcs)

C) M2.6 x 2.5mm Flat Head Screw (1pc) (Pre-Installed in

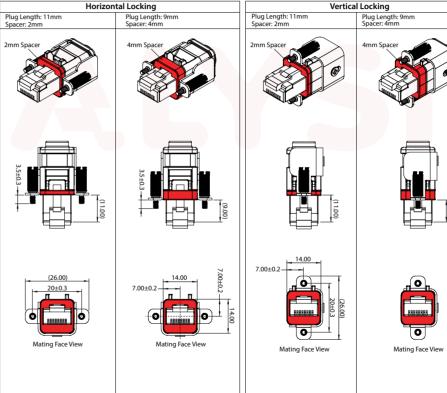
RJ45 connector)

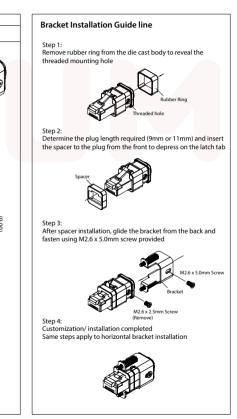
D) M2.6 x 5.0mm Flat Head Screw (1pc) (Use for install Metal Housing Bracket) (A)+(D)

E) Spacer (Thickness = 2 mm & 4mm) (Each 1pc)

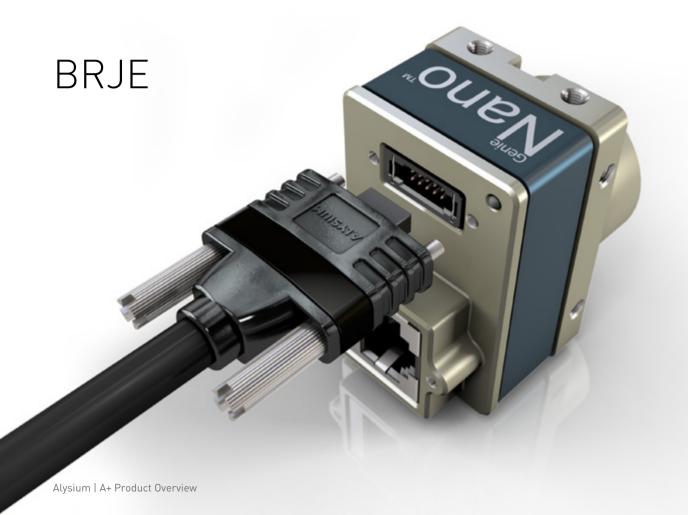


PLUG LENGTH & LOCKING BRACKET CUSTOMIZATION:





Specification Referesh



Features

-) Market leading Industrial Die-Cast Design.
- > 360° EMI Protection.
-) Unique Interface design.
- Space saving.
- **)** Cost reduction compared to traditional Circular Connectors.
- Design approved by TELEDYNE DALSA.
- Available from stock (GER).
- **)** Available Length: 1M, 2M, 3M, 5M, 10M, 15M, 30M

25 / 32

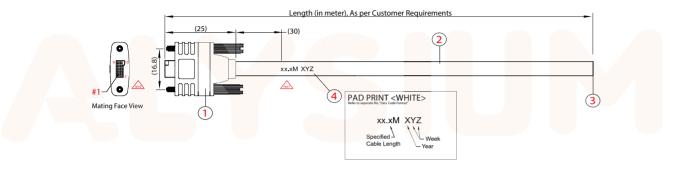
A+ Products

Interface: A+ BRJE

Part Number(s)	Product Description	1M	2M	3M	5M	10M	15M	30M
A65-3210[X]	A+ BRJE // Pigtail	Χ	Χ	Χ	Χ	Χ	Χ	X



DRAWING REF:	IO Industrial Assembly				
REVISION:	00 01	(WON (WON	161207) 170801)	Initial Issue Add Polarization Change Cable Label	
	02	(WON	170802)	Change Polarization	
	03 04	(WON	170825) 170830)	Wiring Dia. Updates Add Cable Info	



UNLESS OTHERWISE SPECIFIED ASSY LENGTH TOLERANCE

< 150mm = ±10

150mm and < 250mm = ±15 250mm and < 500mm = ±20 500mm and < 1000mm = ±30

1000mm and < 5000mm = ±5 5000mm and above = ±100	±50 This document is the prope	ritten consent RoHS COMPLIANT	
1 10P San 2 A11 3 Prod 4 Cab	escription P(1.27) DRsI (DCT) mitech (SFM Series Pitch 0.050" 10P Dual Row) 1-3069 - UL20276 9C#30 Cable cessed End - Flat Cut ble Label (White Pad Print) at Seal PE Bag	WIRING DIAGRAM	PACKAGING DETAIL 5



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