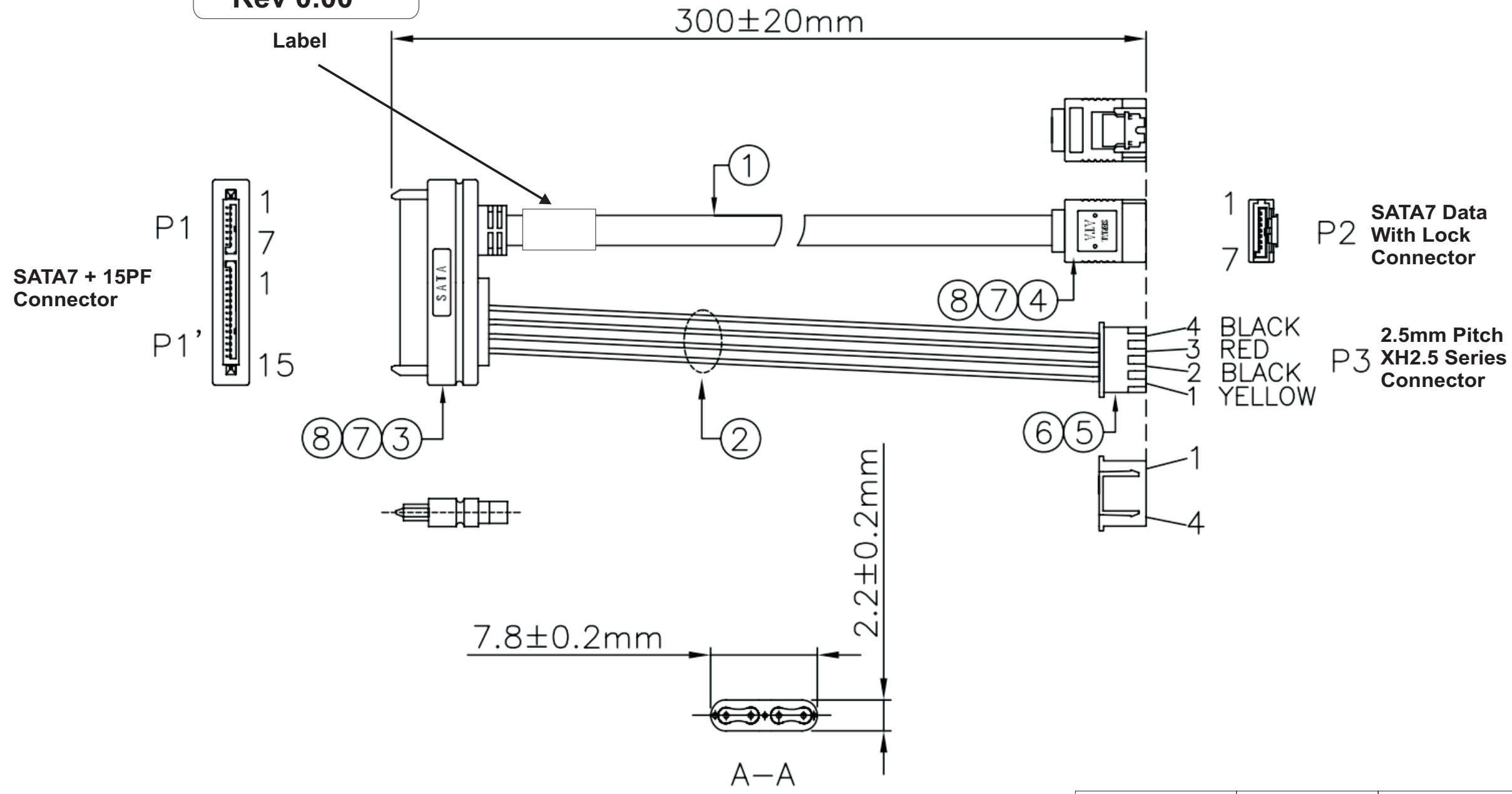


REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2011-12-06	
	0.00b	Updated Template	2017-08-14	

CBG090
CTIC-00347
Rev 0.00



Pinout

P1	P2	
1	1	GND
2	2	A+
3	3	A-
4	4	GND
5	5	B-
6	6	B+
7	7	GND

P3	P1'	
1	15	+12V
	14	
	13	
2	12	GND
	11	
	10	
3	9	+5V
	8	
	7	
4	6	GND
	5	
	4	
	3	
	2	
	1	

- Material Notes**
1. Ensure SATA data cable is SATA III (6Gbps) Capable
 2. Ensure Power Cables are 22AWG

ASSEMBLY & TEST PROCEDURE:

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN METRIC (MM)

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DRAWN PD	DATE 2017-08-14
CHECKED	DATE
ENG APPR.	DATE
MFG APPR.	DATE
Q.A.	DATE
NOT DRAWN TO SCALE	

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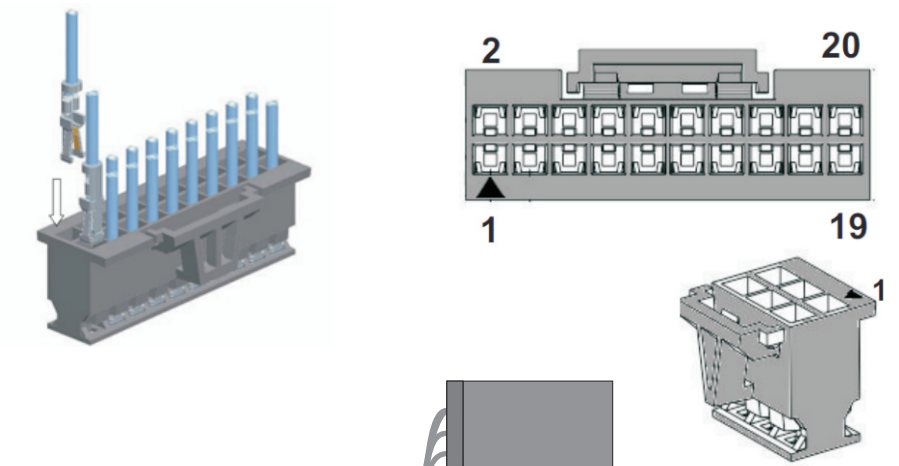
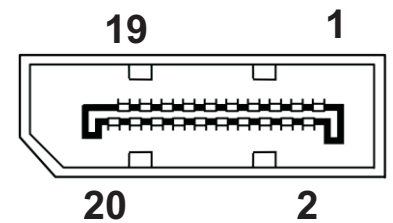
TITLE
**SATA Data+Power to
 SATA Data and XH2.5 Power**

PART NO.
CBG090

DOCUMENT NO.
CTIC-00347

REV
0.00b

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-06-04	
	0.01	Updated Pin 1 Detail, Fixed Pin14 Desc	2013-06-09	
	0.01b	Updated Template	2017-08-14	



DisplayPort++ v1.2
Female w/ Panel
Mounts and Screws



CBG113
CTIC-00432
Rev 0.01

Label

DisplayPort Cable

Heat Shrink

CN2

300 mm

10 mm

FCI
MiniTek 20-pin
Active Latch Housing
10073599-020LF

Pinout

CN1	Signal	CN2
1	DP0+	1
10	DP3+	2
3	DP0-	3
12	DP3-	4
2	GND	5
5	GND	6
4	DP1+	7
17	DPAUX-	8
6	DP1-	9
15	DPAUX+	10
8	GND	11
11	GND	12
7	DP2+	13
18	DP.HPD	14
9	DP2-	15
14	GND	16
16	GND	17
19	GND	18
20	DP_PWR	19
13	DP_AUX_SEL	20

Material Notes

1. Cable is made from **RoHS** compliant components, must be DisplayPort++ compliant and wires must be 26-30 AWG
2. All DPX+/- pairs must be twisted pairs.
2. DisplayPort socket must be DisplayPort++ v.1.2 Female
3. FCI 10073599-020LF must be used; along with required crimps 77138

ASSEMBLY & TEST PROCEDURE:

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CHECKED	DATE
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NOT DRAWN TO SCALE	

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Embedded Computing Experts
42 ARROW ROAD, GUELPH, ON, CANADA, N1K 1S6

TITLE
20-Minitek to DisplayPort

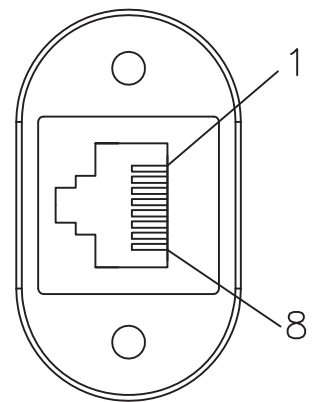
PART NO.
CBG113

DOCUMENT NO.
CTIC-00432

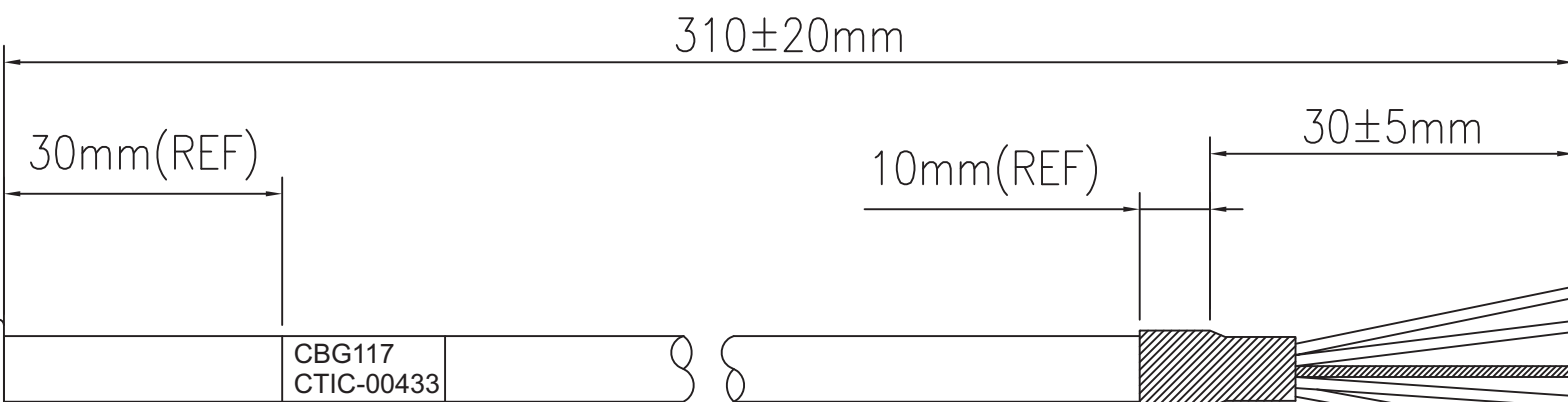
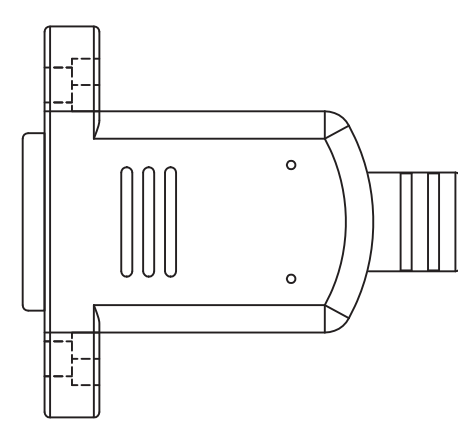
REV
0.01b

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-06-04	
	0.01	Updated PN Info	2013-06-09	
	0.01b	Updated Template	2017-08-14	

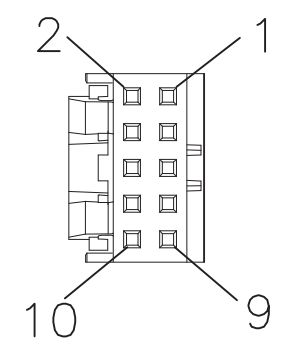
**RJ-45 8P8C Female
w/ Panel Mounts and Screws, Washers, Nuts**



P1(8P8C JACK)

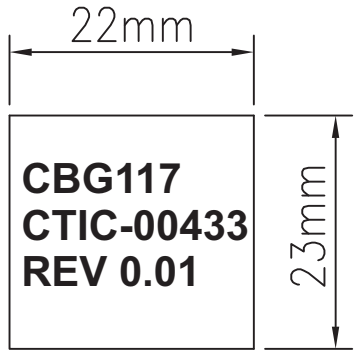


**FCI
MiniTek 10-pin
Housing
PN:10073599-010LF**



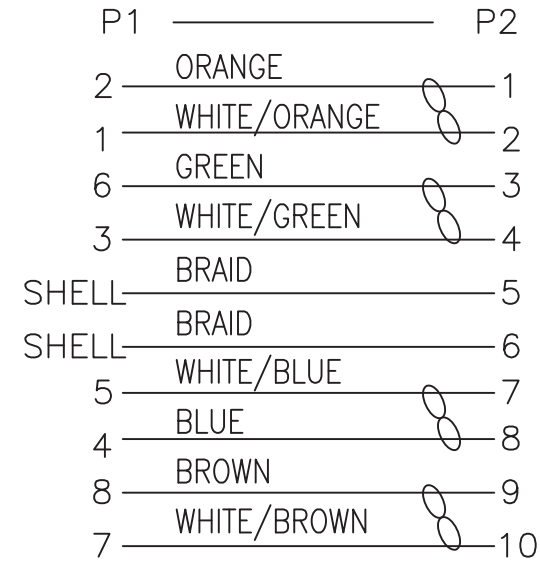
P2(10P HSG)

WHITE GROUND
BLACK PRINTING



LABEL

Pinout



Material Notes

1. Cable is made from **RoHS** compliant components, must be RJ-45 compliant and 26-30 AWG
2. RJ-45 socket must be 8P8C (8 Pins, 8 Connectors)
3. FCI 10073599-010LF must be used; along with required crimps 77138

ASSEMBLY & TEST PROCEDURE:

UNLESS OTHERWISE SPECIFIED:
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CHECKED	DATE
ENG APPR.	DATE
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Q.A.	DATE
NOT DRAWN TO SCALE	

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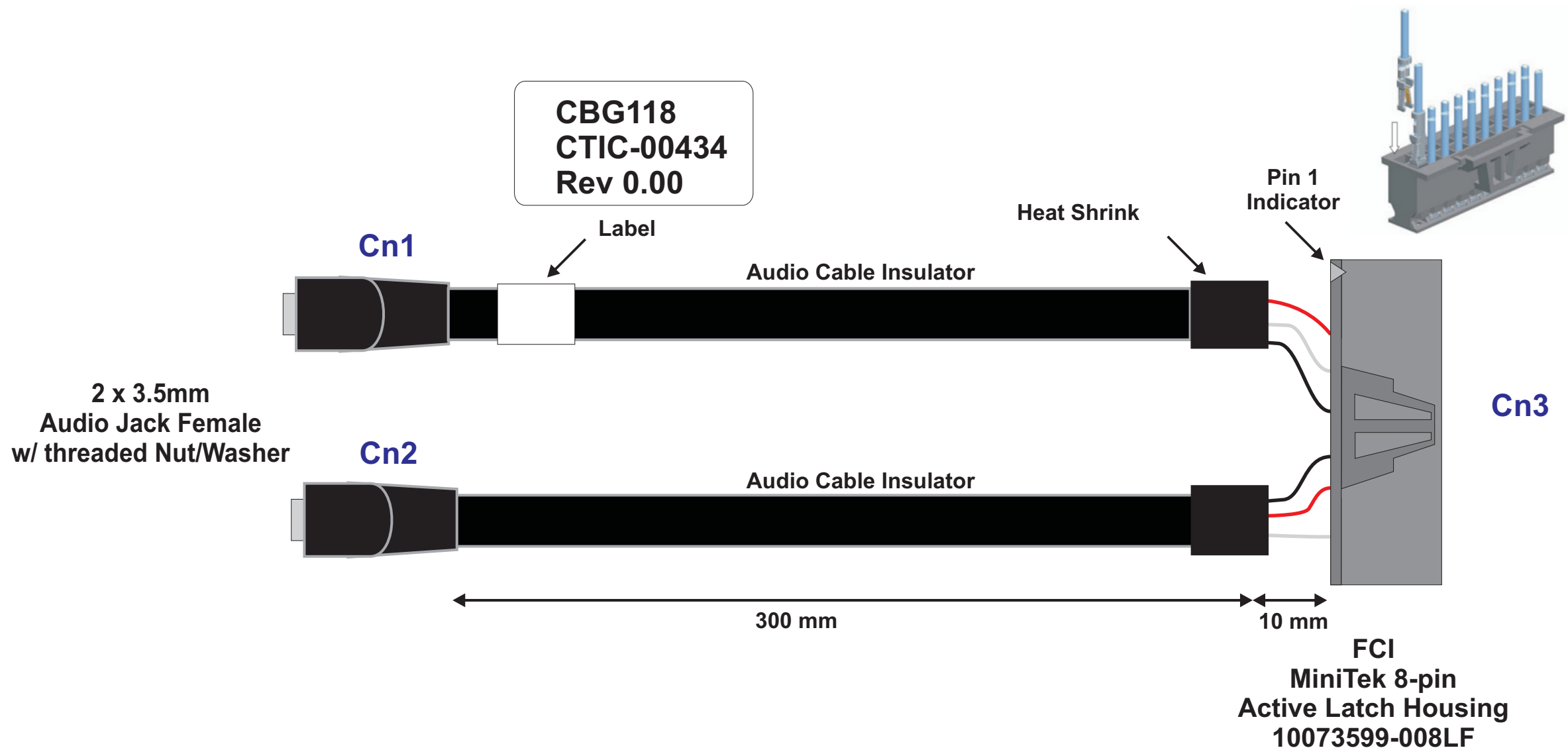
TITLE
10-Minitek to RJ45F

PART NO.
CBG117

DOCUMENT NO.
CTIC-00433

REV
0.01b

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-07-22	
	0.00b	Updated Template	2017-08-14	



Pinout

CN1/CN2	CN3
-	1
-	2
CN1 - Ring	3
CN1 - Tip	4
CN1 - Sleeve	5
CN2 - Sleeve	6
CN2 - Ring	7
CN2 - Tip	8

Material Notes

1. Cable is made from **RoHS** compliant components and wires must be 26-30 AWG
2. FCI 10073599-008LF must be used; along with required crimps 77138

ASSEMBLY & TEST PROCEDURE:

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DRAWN PD	DATE 2017-08-14
CHECKED	DATE
ENG APPR.	DATE
MFG APPR.	DATE
Q.A.	DATE
NOT DRAWN TO SCALE	

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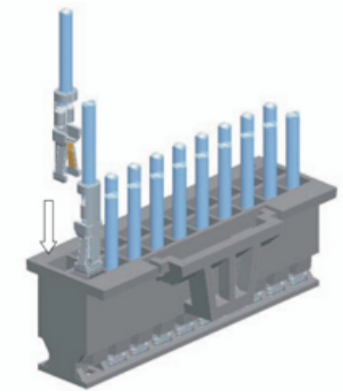
TITLE
**8-Pin Minitek to
2x 3.5 Audio Jacks**

PART NO.
CBG118

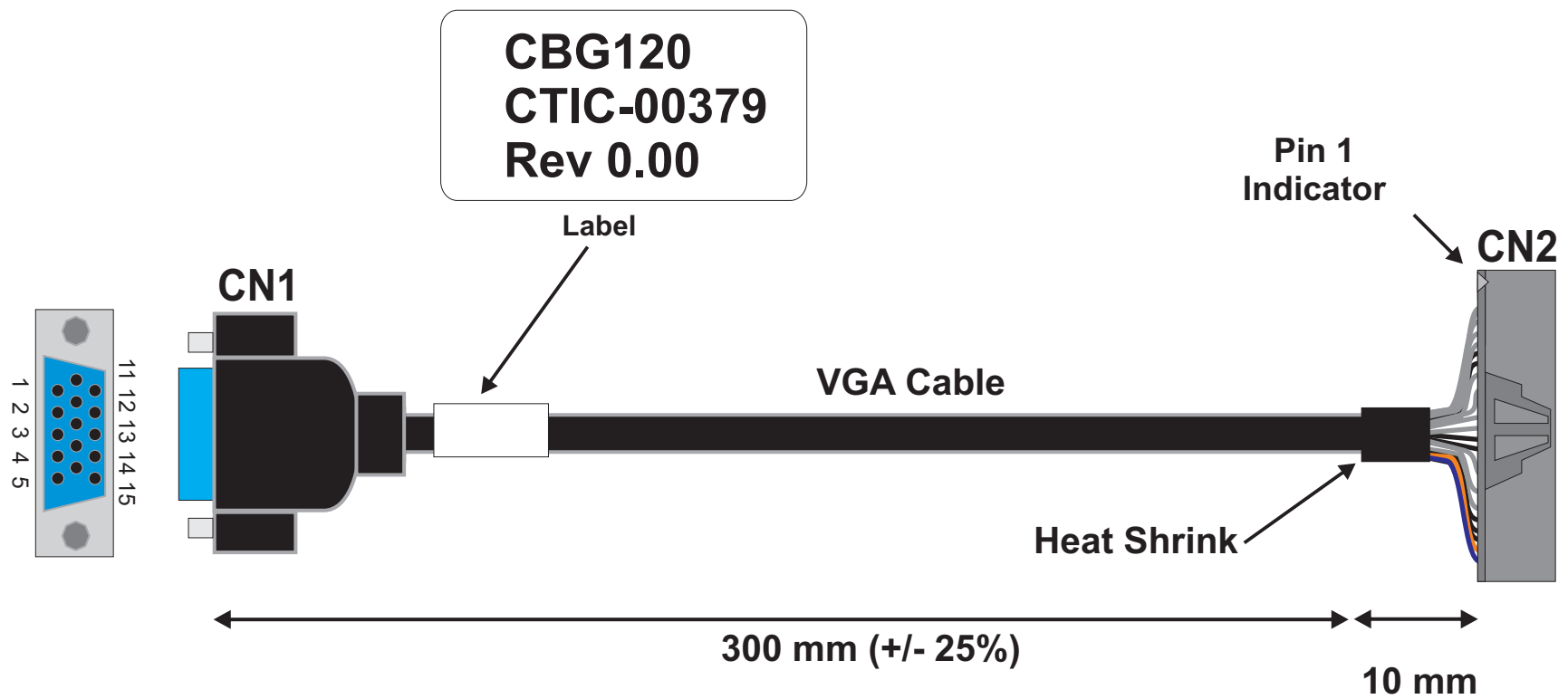
DOCUMENT NO.
CTIC-00434

REV
0.00b

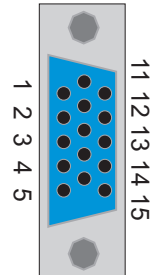
REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-07-22	
	0.00b	Updated Template	2017-08-14	



**FCI
MiniTek 10-pin
Active Latch Housing
10073599-010LF
crimps: 77138**



**VGA - HD-15 Female
Panel Mount Connector
with moulding/cover
and hex nut screws**



Pinout

CN1 VGA (HD-15)	Signal	CN2 10 Pin Header
1	RED	1
2	GREEN	3
3	BLUE	5
4	NC	-
5	GND	10
6	GND	2
7	GND	2
8	GND	2
9	NC	-
10	GND	10
11	NC	-
12	DDC DATA	8
13	HSync	7
14	VSynC	9
15	DDC CLK	6

Material Notes

- Cable must be made from **RoHS** compliant components
- Wires must be 26-30 AWG
- Hex nut screws on CN1 must be installed

ASSEMBLY & TEST PROCEDURE:

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CHECKED	DATE
ENG APPR.	DATE
MFG APPR.	DATE
Q.A.	DATE

Connect Tech Inc.
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TITLE
10-Pin Minitek to VGA Cable

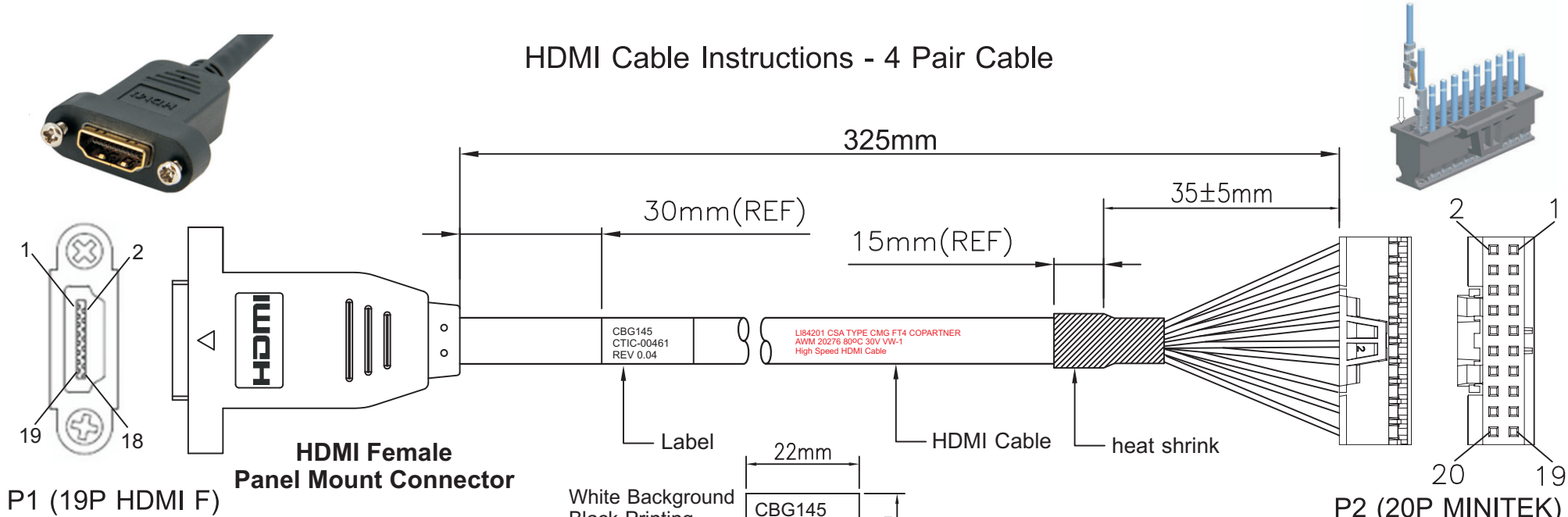
NOT DRAWN TO SCALE

PART NO.
CBG120

DOCUMENT NO.
CTIC-00379

REV
0.00b

HDMI Cable Instructions - 4 Pair Cable



HDMI Female Panel Mount Connector
P1 (19P HDMI F)

FCI MiniTek 20-pin Active Latch Housing
10073599-020LF

PINOUT TABLE


P1		P2	
1	—	1	RED
3	—	3	WHITE (RED)
2	—	5	BLACK (RED)
4	—	7	BROWN
6	—	9	WHITE (BROWN)
5	—	6	BLACK (BROWN)
7	—	13	GREEN
9	—	15	WHITE (GREEN)
8	—	11	BLACK (GREEN)
10	—	2	BLUE
12	—	4	WHITE (BLUE)
11	—	12	BLACK (BLUE)
16	—	8	PINK
15	—	10	GREY
17	—	16	YELLOW
19	—	14	RED
13	—x NC	NC x—	17
14	—x NC	NC x—	18
18	—	19	ORANGE
		20	ORANGE

Assembly Notes

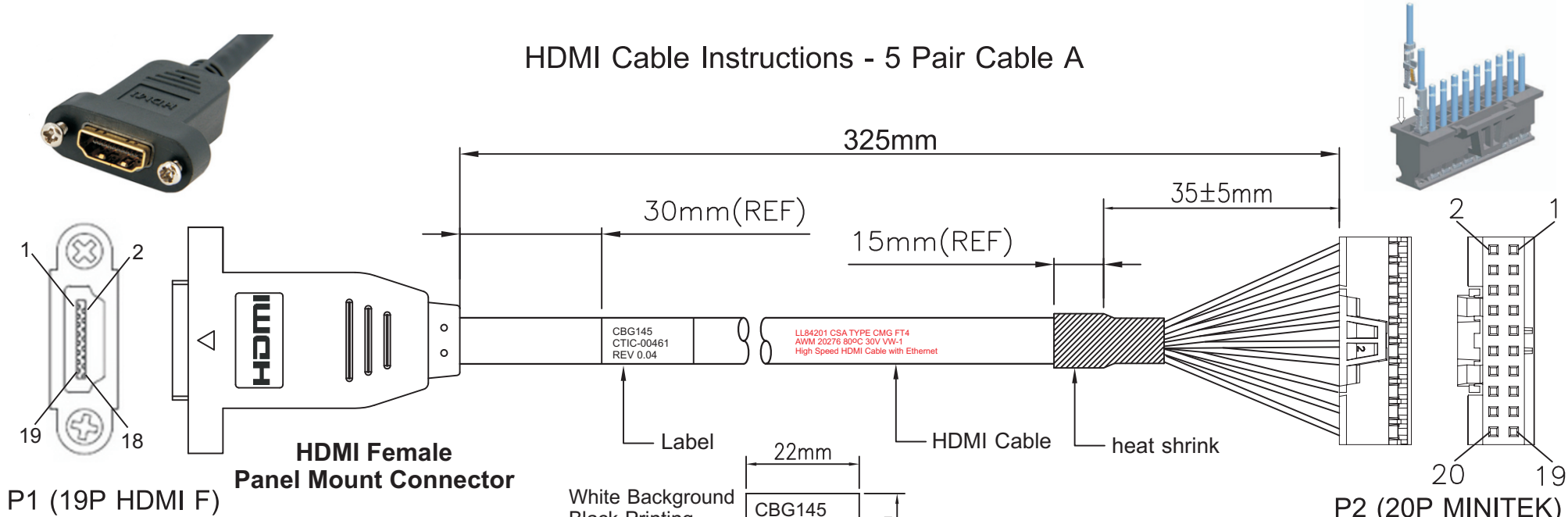
- Determine which Raw Cable Variant you have
 - Verify UL/CSA Text Matches Drawing
 - Check Connectivity of Pairs 1, 2, 3 to Validate Colours
- Cable is made from RoHS compliant components, must be HDMI compliant and wires must be 26-30 AWG
- P1- Any HDMI Female Panel Mount connector/cable equivalent can be used including:
 - Startech PN: HDMIPNLFM3 << Preferred Cable (Colour Matching on Left)
 - Adafruit PN: 978
 - Cable Leader PN: HM112-1203
 - L-com PN: PMHDMF-0.5
- P2 - Must use a FCI PN:10073599-020LF connector, along with required FCI crimps PN:77138
- Two twists per pair are required at P2 end of cable

Revision History

Revision	Description
0.01	Connected HDMI +5V Power to FCI Pins 19/20
0.02	Added Secondary Drawing (5 Pair vs 4 Pair)
0.03	Fixed Label Details on Cable
0.04	Added New Cable Variants

 Connect Tech Inc. Embedded Computing Experts	
Part #:	CTIC-00461 / CBG145
Drawn By:	Tomas Chester
Date:	2017/09/12
Revision:	0.04

HDMI Cable Instructions - 5 Pair Cable A



PINOUT TABLE


P1		P2	
1	—	1	BROWN
3	—	3	WHITE (BROWN)
2	—	5	BLACK (BROWN)
4	—	7	GREEN
6	—	9	WHITE (GREEN)
5	—	6	BLACK (GREEN)
7	—	13	RED
9	—	15	WHITE (RED)
8	—	11	BLACK (RED)
10	—	2	BLUE
12	—	4	WHITE (BLUE)
11	—	12	BLACK (BLUE)
16	—	8	WHITE
15	—	10	YELLOW
17	—	16	BLACK (ORANGE)
19	—	14	WHITE (ORANGE)
13	—x NC ORANGE	NC x—	17
14	—x NC ORANGE	NC x—	18
18	—	19	RED
		20	RED

Assembly Notes

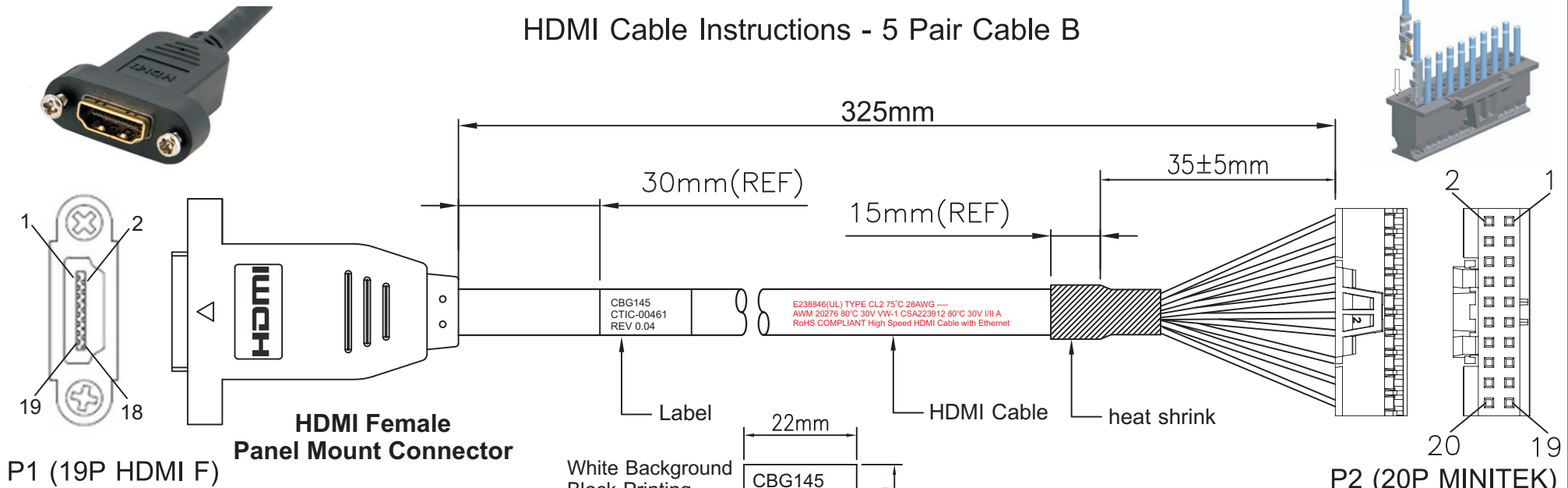
- Determine which Raw Cable Variant you have
 - Verify UL/CSA Text Matches Drawing
 - Check Connectivity of Pairs 1, 2, 3 to Validate Colours
- Cable is made from RoHS compliant components, must be HDMI compliant and wires must be 26-30 AWG
- P1- Any HDMI Female Panel Mount connector/cable equivalent can be used including:
 - Startech PN: HDMIPNLFM3 << Preferred Cable (Colour Matching on Left)
 - Adafruit PN: 978
 - Cable Leader PN: HM112-1203
 - L-com PN: PMHDMF-0.5
- P2 - Must use a FCI PN:10073599-020LF connector, along with required FCI crimps PN:77138
- Two twists per pair are required at P2 end of cable

Revision History

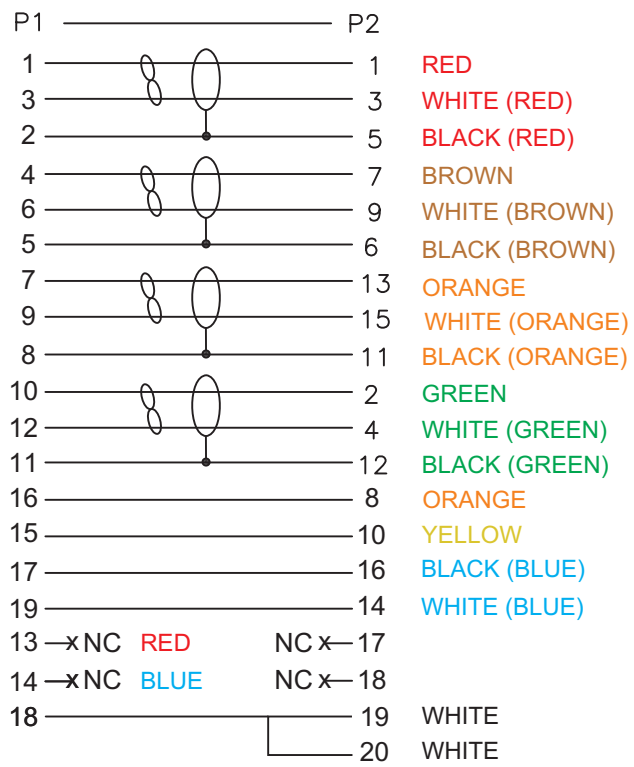
Revision	Description
0.01	Connected HDMI +5V Power to FCI Pins 19/20
0.02	Added Secondary Drawing (5 Pair vs 4 Pair)
0.03	Fixed Label Details on Cable
0.04	Added New Cable Variants

 Connect Tech Inc. Embedded Computing Experts	
Part #:	CTIC-00461 / CBG145
Drawn By:	Tomas Chester
Date:	2017/09/12
Revision:	0.04

HDMI Cable Instructions - 5 Pair Cable B



PINOUT TABLE




Assembly Notes

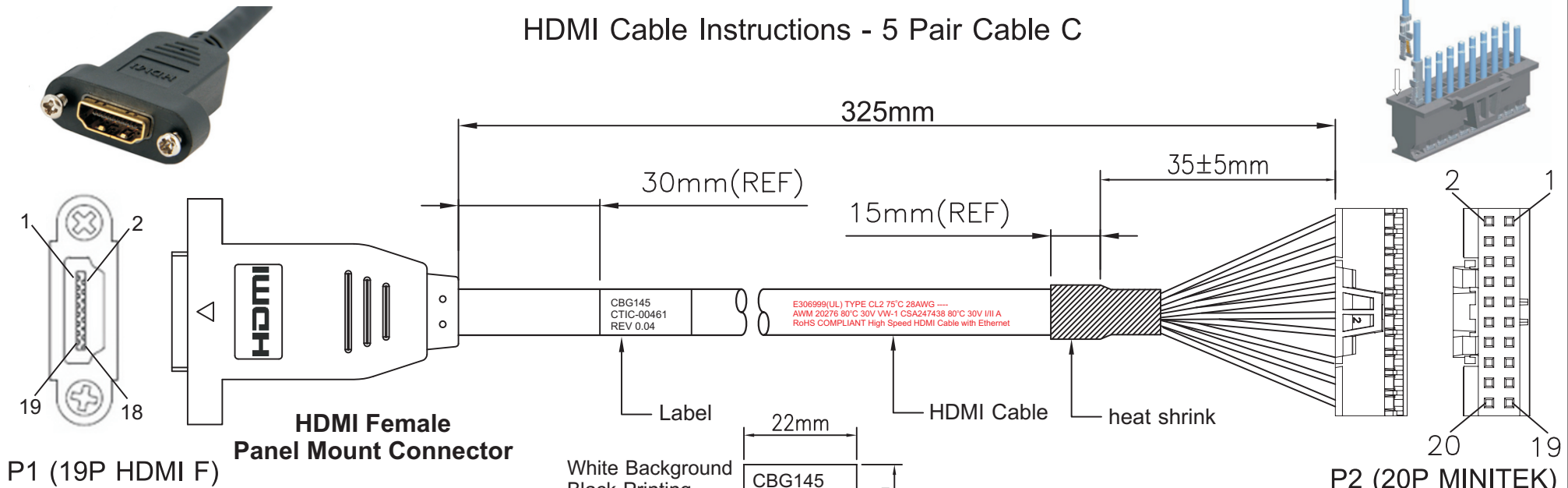
- Determine which Raw Cable Variant you have
 - Verify UL/CSA Text Matches Drawing
 - Check Connectivity of Pairs 1, 2, 3 to Validate Colours
- Cable is made from RoHS compliant components, must be HDMI compliant and wires must be 26-30 AWG
- P1- Any HDMI Female Panel Mount connector/cable equivalent can be used including:
 - Startech PN: HDMIPNLFM3 << Preferred Cable (Colour Matching on Left)
 - Adafruit PN: 978
 - Cable Leader PN: HM112-1203
 - L-com PN: PMHDMF-0.5
- P2 - Must use a FCI PN:10073599-020LF connector, along with required FCI crimps PN:77138
- Two twists per pair are required at P2 end of cable

Revision History

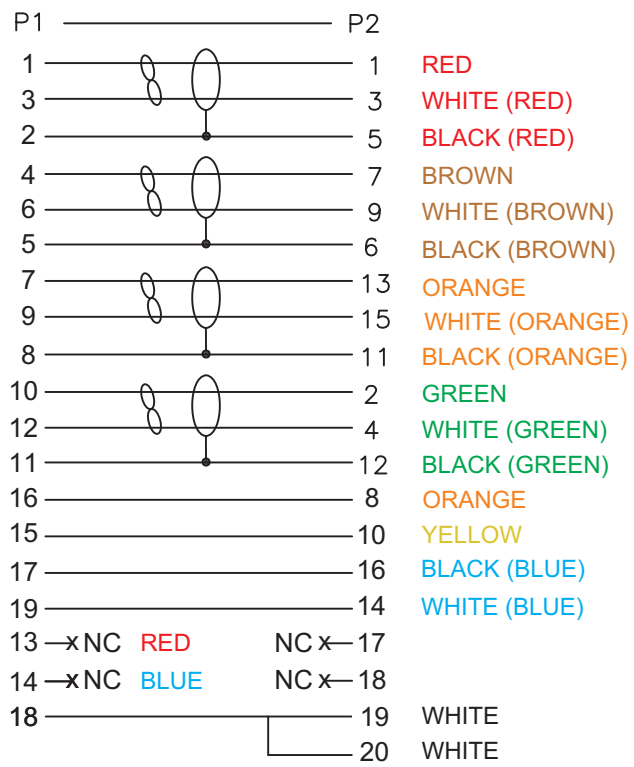
Revision	Description
0.01	Connected HDMI +5V Power to FCI Pins 19/20
0.02	Added Secondary Drawing (5 Pair vs 4 Pair)
0.03	Fixed Label Details on Cable
0.04	Added New Cable Variants

 Connect Tech Inc. Embedded Computing Experts	
Part #:	CTIC-00461 / CBG145
Drawn By:	Tomas Chester
Date:	2017/09/12
Revision:	0.04

HDMI Cable Instructions - 5 Pair Cable C



PINOUT TABLE




Assembly Notes

- Determine which Raw Cable Variant you have
 - Verify UL/CSA Text Matches Drawing
 - Check Connectivity of Pairs 1, 2, 3 to Validate Colours
- Cable is made from RoHS compliant components, must be HDMI compliant and wires must be 26-30 AWG
- P1- Any HDMI Female Panel Mount connector/cable equivalent can be used including:
 - Startech PN: HDMIPNLFM3 << Preferred Cable (Colour Matching on Left)
 - Adafruit PN: 978
 - Cable Leader PN: HM112-1203
 - L-com PN: PMHDMF-0.5
- P2 - Must use a FCI PN:10073599-020LF connector, along with required FCI crimps PN:77138
- Two twists per pair are required at P2 end of cable

Revision History

Revision	Description
0.01	Connected HDMI +5V Power to FCI Pins 19/20
0.02	Added Secondary Drawing (5 Pair vs 4 Pair)
0.03	Fixed Label Details on Cable
0.04	Added New Cable Variants

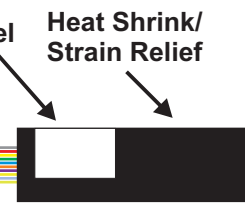
 Connect Tech Inc. Embedded Computing Experts	
Part #:	CTIC-00461 / CBG145
Drawn By:	Tomas Chester
Date:	2017/09/12
Revision:	0.04

Unterminated Wires

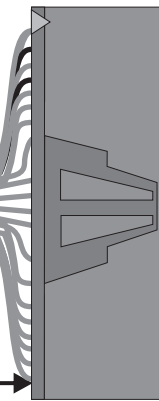


CBG186
CTIC-00533
Rev 0.03

Label
Heat Shrink/
Strain Relief



Pin 1
Indicator



16-pin
MiniTek



300 mm

10 mm

FCI
MiniTek 16-pin
Active Latch Housing
10073599-016LF

Pinout Information

Unterminated Wires	Signal	Colour	10-pin MiniTek w/Latch
-	SYS_RST#	YELLOW	1
-	+5V	RED	2
-	SYS_PWRBTN#	YELLOW	3
-	+5V	RED	4
-	SYS_BATLOW#	YELLOW	5
-	RTC-BAT-EXT	GREY	6
-	SUS_S3#	YELLOW	7
-	I2C SCL	BLUE	8
-	SUS_S5#	YELLOW	9
-	I2C SDA	BLUE	10
-	SMB DATA	GREEN	11
-	SPEAKER N	GREY	12
-	SMB CLK	GREEN	13
-	GND	BLACK	14
-	SMB ALERT#	GREEN	15
-	GND	BLACK	16

Assembly Notes

1. Cable is made from **RoHS** compliant components and 26-30 AWG
2. FCI 10073599-016LF must be used; along with required crimps 77138

Revision History

Revision	Description
0.00	Initial
0.01	Completed Colour Coding of All Wires
0.02	Fixed Assembly Notes
0.03	Correct FCI Connector



Connect Tech Inc.
Embedded Computing Experts

Part #:	CTIC-00533 / CBG186
Drawn By:	Tomas Chester
Date:	2016/02/16
Revision:	0.03



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Embedded Computing Experts

www.connecttech.com

Product Change Notification

USB 3.0 Optimization

PCN Number:	CTIU-00008
Revision:	0.01
Issue Date:	2018-01-08
Effective Date:	2017-12-10
Authors:	TH

1 Product Identification

1.1 Product Data

	Effected Products
CTI Part Numbers	ASG001, ASG002, ASG010, ASG011, ASG012, CCG017, CCG018, CCG020, CCG060, CBG131, CBG133, VXG001, VXG002, VXG003, VXG004, VXG005, VXG006, VXG007, VXG008, VXG009, VXG010, VXG011, VXG012, VXG013, VXG014, VXG015, VXG016, VXG017, VXG018, VXG019, VXG020, VXG021, VXG022, VXG023, VXG024, VXG025, VXG026, VXG027, VXG028, VXG029, VXG030, VXG031, VXG032, VXG033, VXG034, VXG035, VXG036, VXG037, VXG038, VXG039, VXG040, VXG041, VXG042, VXG043, VXG044, VXG045, VXG046, VXG101, VXG102, VXG103, VXG104, VXG105, VXG113, VXG201, VXG202, VXG203, VXG204, VXG205, VXG206, VXG301, VXG302, VXG303
Serial Number	N/A
Lot Number	N/A
Hardware Revision	N/A
Firmware Version	N/A

1.2 Means of Distinguishing Changed Products

		Remark
Product Number	<input type="checkbox"/>	
Hardware Revision	<input type="checkbox"/>	
Lot Code	<input type="checkbox"/>	
Label	<input type="checkbox"/>	
Other	<input checked="" type="checkbox"/>	Products shipped after the date of this PCN release will have the USB 3.0 optimization applied.

2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input checked="" type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input type="checkbox"/>	Datasheet / Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input type="checkbox"/>	Other	<input type="checkbox"/>
Equipment	<input type="checkbox"/>		

USB 3.0 Re-Driver Settings:

ASG001, ASG002, ASG010, ASG011, ASG012, CCG017, CCG018, CCG020, CCG060, VXG001, VXG002, VXG003, VXG004, VXG005, VXG006, VXG007, VXG008, VXG009, VXG010, VXG011, VXG012, VXG013, VXG014, VXG015, VXG016, VXG017, VXG018, VXG019, VXG020, VXG021, VXG022, VXG023, VXG024, VXG025, VXG026, VXG027, VXG028, VXG029, VXG030, VXG031, VXG032, VXG033, VXG034, VXG035, VXG036, VXG037, VXG038, VXG039, VXG040, VXG041, VXG042, VXG043, VXG044, VXG045, VXG046, VXG101, VXG102, VXG103, VXG104, VXG105, VXG113, VXG201, VXG202, VXG203, VXG204, VXG205, VXG206, VXG301, VXG302, VXG303

The Connect Tech Inc. (CTI) products listed above all use USB 3.0 re-drivers for each of the USB 3.0 ports present on that product. Using USB 3.0 compliance testing along with several functional tests the re-driver settings have been optimized on each product to ensure robust operation of the USB 3.0 interfaces across multiple applications.

These improvements should not have any adverse effects on existing systems. If you discover that you have USB 3.0 issues with CTI products please contact our customer support at support@connecttech.com with the relevant details of your issue.

USB 3.0 Cables: CBG131, CBG133

As part of the USB 3.0 optimization of CTI products, CTI no longer recommends CBG131 and CBG133 for new designs. CTI will continue to offer and support these cables for existing systems. See cable images below; CBG131 is on the left and CBG133 is on the right.



*Images courtesy of StarTech

For new designs CTI recommends CBG160, CBG287, and CBG288.

CBG160 on the left. CBG287 on the right. Both right-angle PCB connections but one exits 180 degrees in the opposite direction of the other.



CBG288 shown below with vertical connection to the PCB connector.



For more information regarding these cables please read further in this document and/or contact our sales department at sales@connecttech.com.

3 Impact of change (positive or negative) on fit, form, function & reliability

3.1 Quality and Reliability

The changes listed in Section 2 should have a positive effect on the overall quality and reliability of the USB 3.0 ports of the listed Connect Tech products.

3.2 Software Compatibility

N/A

3.3 Hardware Compatibility

USB 3.0 ports on the listed Connect Tech Inc. board level products have had their default USB 3.0 re-driver settings optimized based on a wide range of use-cases and applications. These changes should have a positive effect on the operation of the USB 3.0 interfaces. If you have an existing product in which you have characterized the USB 3.0 channels it is recommended that you conduct characterization of these channels again with the post ECN optimized products.

3.4 Mechanical Compatibility

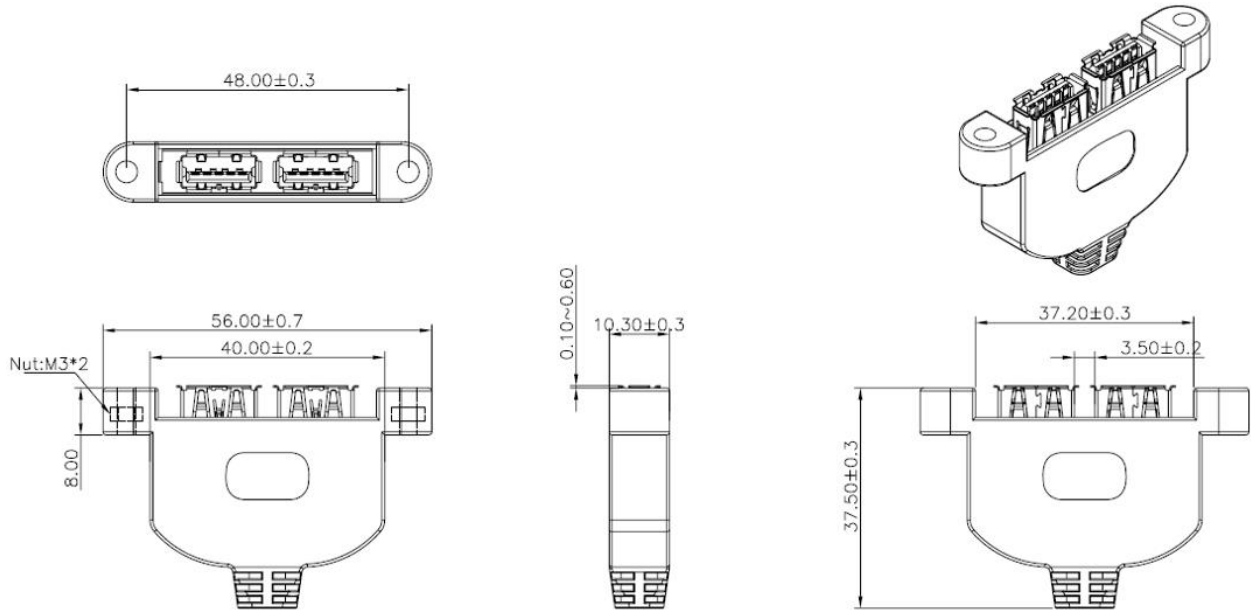
Cable colour, length and panel mount geometries are different between the old and new cables. See below for more information.

3.4.1 Cable Detail Summary

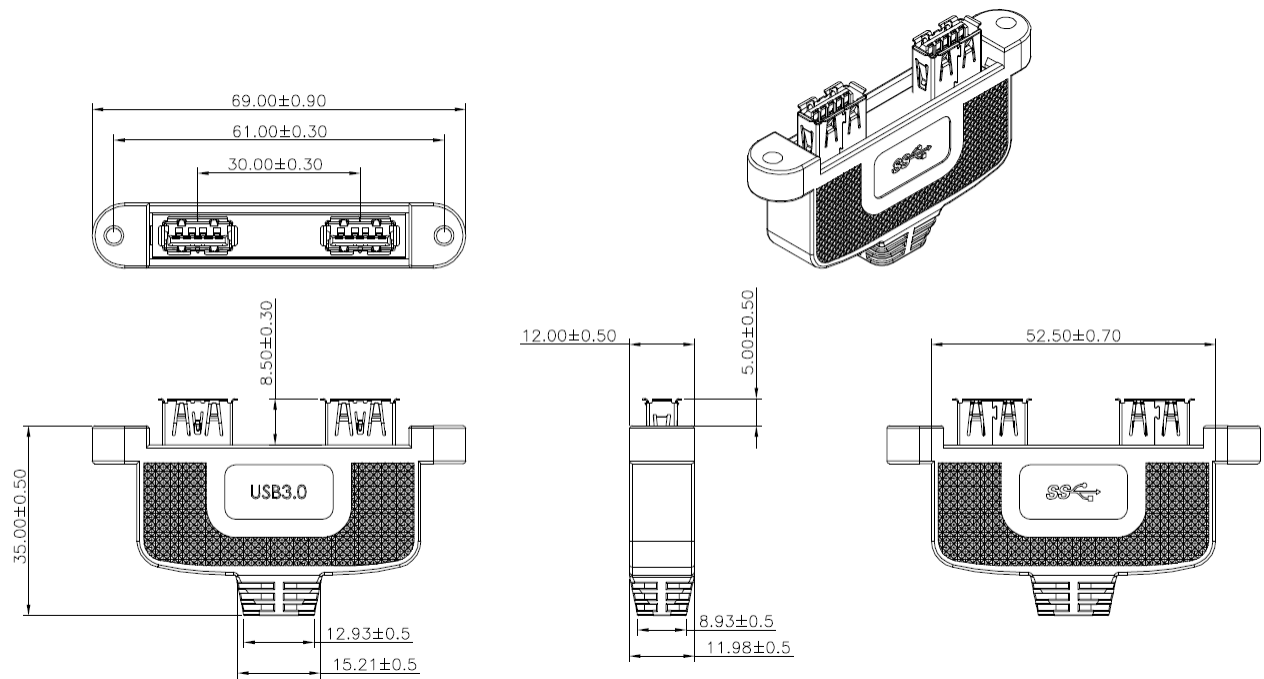
	CTI Cable Number	OEM	Cable Length	Cable Colour	Board Exit
No Longer Recommended	CBG131	StarTech USB3SPLATE	0.5 m (1.6 ft.)	Blue	Vertical
	CBG133	StarTech USB3SPNLAFFHD	0.5 m (1.6 ft.)	Blue	Vertical
Recommended for New Designs	CBG160	Lotes ABA-USB-526-K01	0.3175 m (1.04 ft.)	Black	Right-Angle
	CBG287	Lotes ABA-USB-067-K01	0.4572 m (1.5 ft.)	Black	Right-angle 180 degrees
	CBG288	Lotes ABA-USB-164-K01	0.7167 m (2.35 ft.)	Black	Vertical

3.4.2 New Panel Mount Geometries

3.4.2.1 CBG160 and CBG287



3.4.2.2 CBG288



*Images courtesy of Lotes
*Dimensions in mm

4 Product / Revision Discontinuation

These changes take effect immediately upon the release of this PCN and only products with the USB 3.0 optimization will be delivered. This does not include products that fall under the RMA process.

5 Contact Information

Phone	+1-519-836-1291
Email	sales@connecttech.com