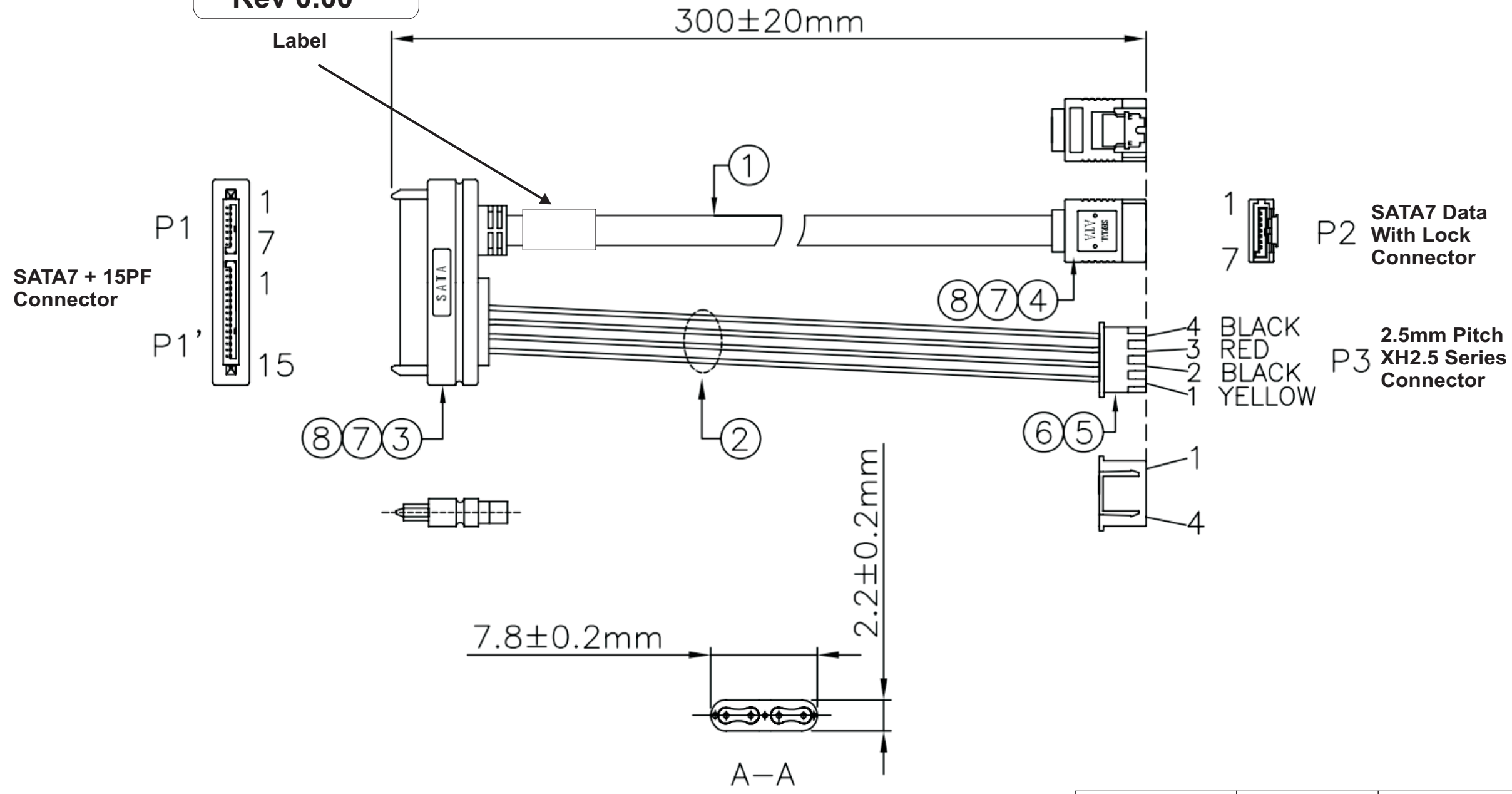


REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2011-12-06	
	0.00b	Updated Template	2017-08-14	

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

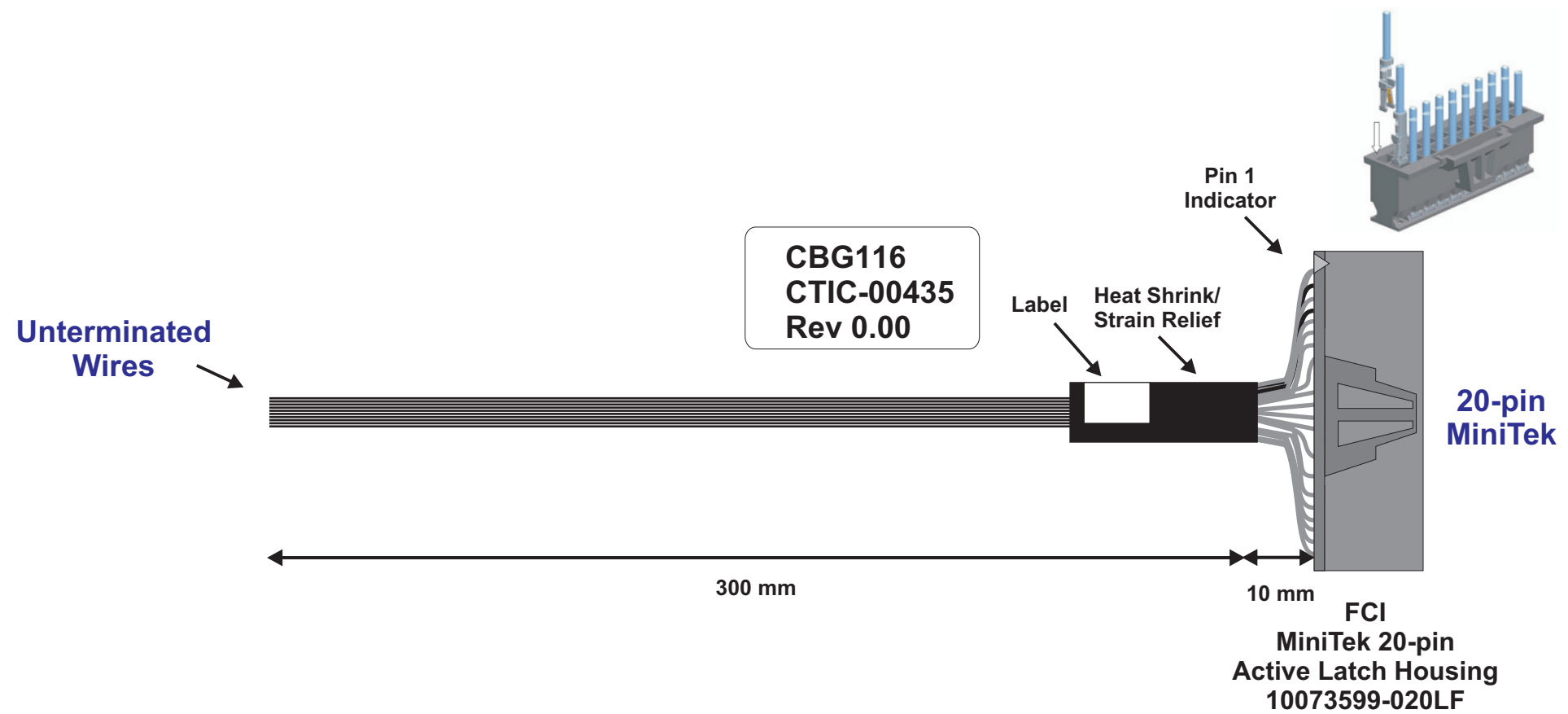
TITLE
**SATA Data+Power to
SATA Data and XH2.5 Power**

PART NO.
CBG090

DOCUMENT NO.
CTIC-00347

REV
0.00b

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-05-28	
	0.00b	Updated template	2017-08-14	




Pinout

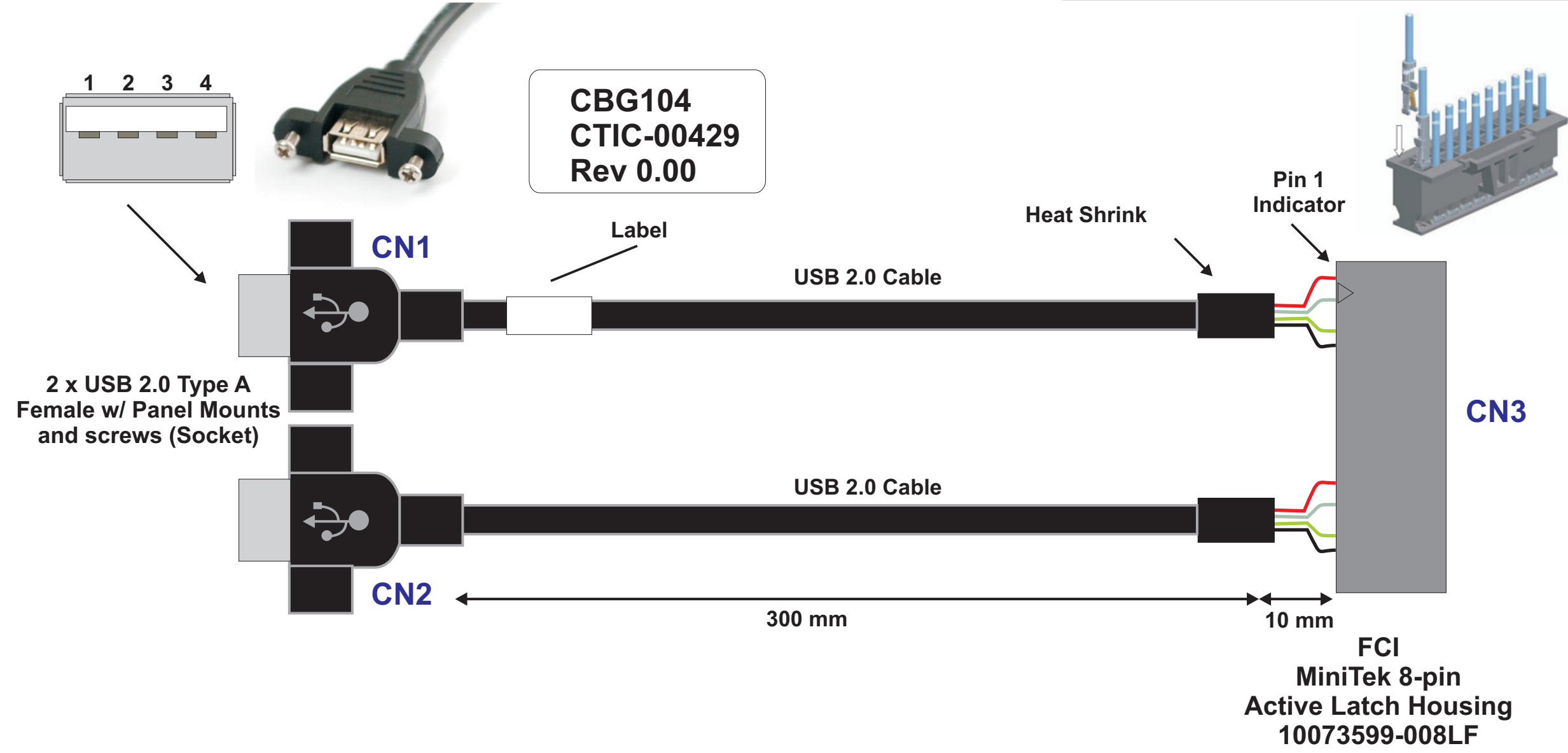
Unterminated Wires	20-pin MiniTek
-	1
-	2
-	3
-	4
-	5
-	6
-	7
-	8
-	9
-	10
-	11
-	12
-	13
-	14
-	15
-	16
-	17
-	18
-	19
-	20

Assembly Instructions

1. Cable is made from **RoHS** compliant components and 26 AWG
2. FCI Minitex House PN: 10073599-020LF must be used
3. FCI Minitex Crimp PN: 77138-001LF must be used

ASSEMBLY & TEST PROCEDURE:	DRAWN PD	DATE 2017-08-14	 Connect Tech Inc. <i>Embedded Computing Experts</i> 42 ARROW ROAD, GUELPH, ON, CANADA, N1K 1S6
	CHECKED	DATE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METRIC (MM)	ENG APPR.	DATE	TITLE 20-Pin Minitex to Flying Leads
	MFG APPR.	DATE	
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	NOT DRAWN TO SCALE		
			REV 0.00b

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



Pinout

CN1 USB #1	Signal	Color	CN3 FCI
1	VCC	RED	1
2	D-	WHITE	3
3	D+	GREEN	5
4	GND	BLACK	7
CN2 USB #2			
1	VCC	RED	2
2	D-	WHITE	4
3	D+	GREEN	6
4	GND	BLACK	8

Material Notes

1. Cable is made from **RoHS** compliant components, must be USB 2.0 compliant and 26-30 AWG
2. Both Signal Pairs D-/D+ must be twisted pair, 90ohm differential impedance
3. USB sockets must be USB 2.0 Type A Female
4. FCI 10073599-008LF must be used; along with required crimps 77138

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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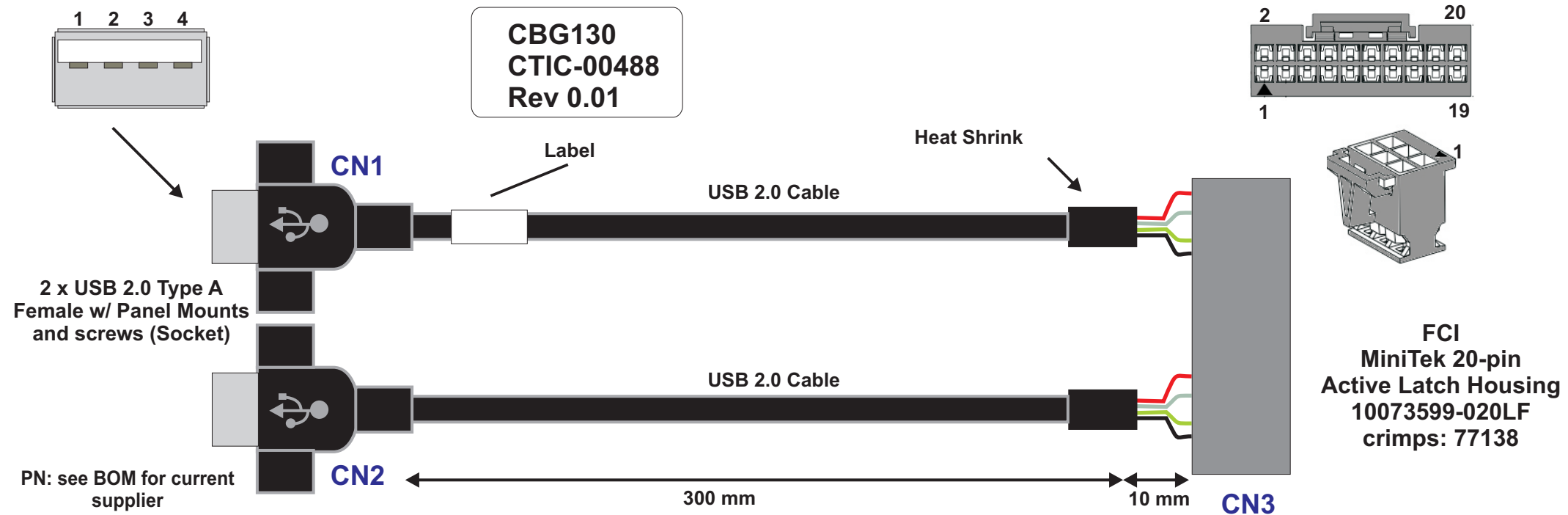
TITLE
8-Pin Minitek to
2x USB 2.0 Type-A Female

NOT DRAWN TO SCALE

PART NO. CBG104	REV 0.00b
DOCUMENT NO. CTIC-00429	

REVISIONS

ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-11-04	
	0.01	Assembly site changed	2017-07-05	



Pinout Information

USB Connectors	Signal	20-pin MiniTek	USB 2.0 Wire Color
-	NC	CN3-1	
CN2-1	P2-VBUS	CN3-3	Red
-	NC	CN3-5	
-	NC	CN3-7	
-	NC	CN3-9	
-	NC	CN3-11	
-	NC	CN3-13	
CN2-4	P2-GND	CN3-15	Black
CN2-2	P2-D-	CN3-17	White
CN2-3	P2-D+	CN3-19	Green
CN1-1	P1-VBUS	CN3-2	Red
-	NC	CN3-4	
-	NC	CN3-6	
-	NC	CN3-8	
-	NC	CN3-10	
-	NC	CN3-12	
CN1-4	P1-GND	CN3-14	Black
CN1-2	P1-D-	CN3-16	White
CN1-3	P1-D+	CN3-18	Green
-	NC	CN3-20	

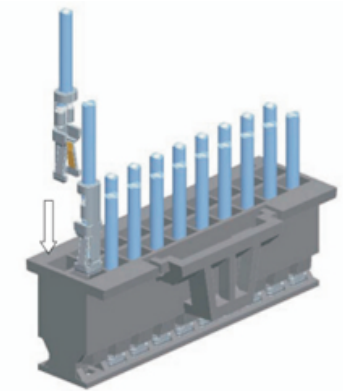
INTERNAL NOTE: CN3 numbering intentionally does not match PCB numbering

Assembly Notes

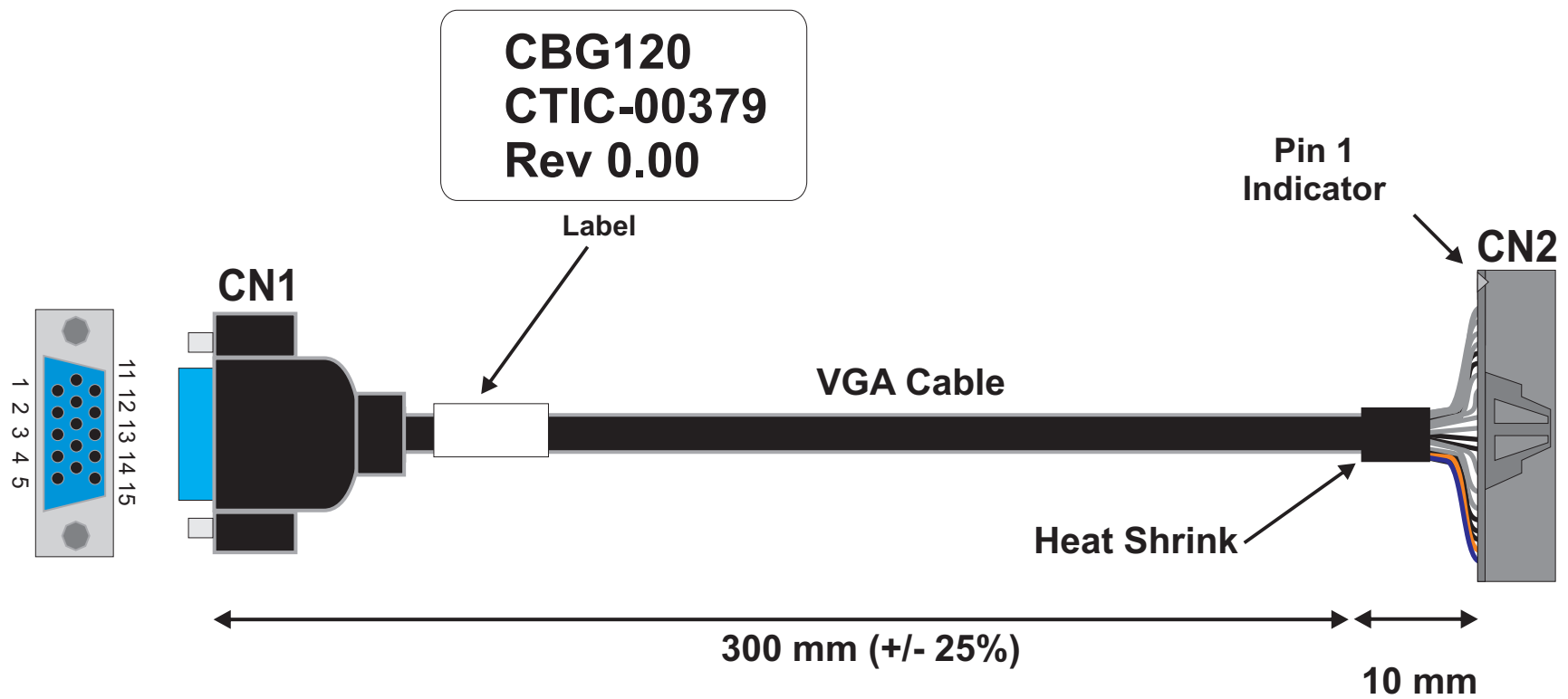
1. Cable is made from **RoHS** compliant components, must be USB 2.0 compliant and 26-30 AWG
2. Both Signal Pairs D-/D+ must be twisted pair, 90ohm differential impedance
3. USB sockets must be USB 2.0 Type A Female
4. FCI **10073599-020LF** must be used; along with required crimps 77138

ASSEMBLY & TEST PROCEDURE:	DRAWN MF	DATE 2017-07-05	Connect Tech Inc. Embedded Computing Experts 42 ARROW ROAD, GUELPH, ON, CANADA, N1K 1S6
	CHECKED	DATE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METRIC (MM)	ENG APPR.	DATE	TITLE Dual USB2.0 to MiniTek 2x10
	MFG APPR.	DATE	
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	NOT DRAWN TO SCALE		DOCUMENT NO. CTIC-00488
			REV 0.01

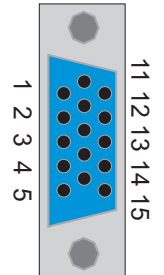
REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-07-22	
	0.00b	Updated Template	2017-08-14	



**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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ENG APPR.	DATE
MFG APPR.	DATE
Q.A.	DATE

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TITLE
10-Pin Minitex to VGA Cable

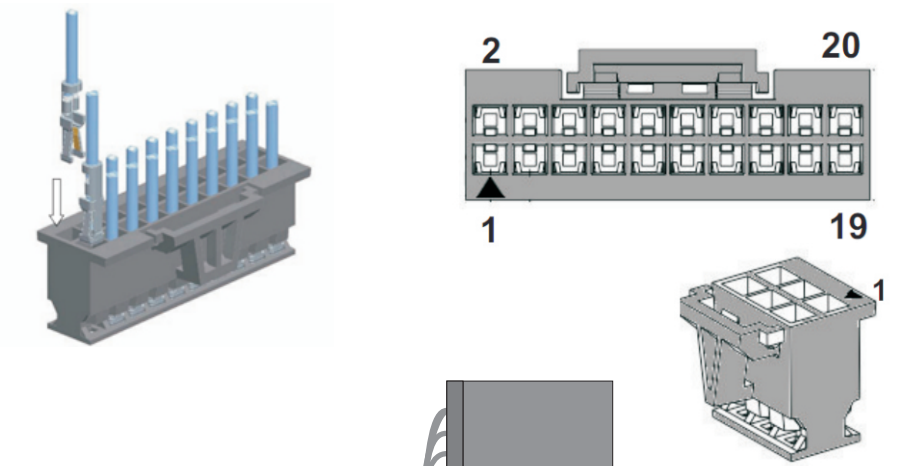
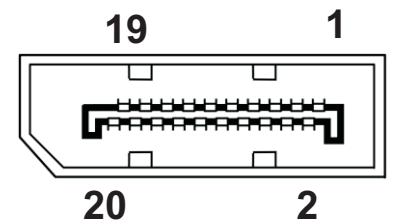
NOT DRAWN TO SCALE

PART NO.
CBG120

DOCUMENT NO.
CTIC-00379

REV
0.00b

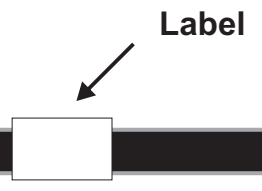
REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-06-04	
	0.01	Updated Pin 1 Detail, Fixed Pin14 Desc	2013-06-09	
	0.01b	Updated Template	2017-08-14	



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

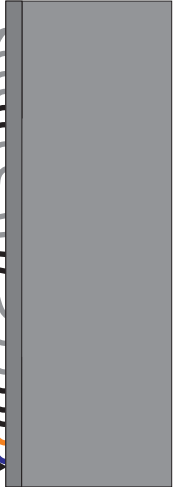


CBG113
CTIC-00432
Rev 0.01



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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ENG APPR.	DATE
MFG APPR.	DATE
Q.A.	DATE
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TITLE
20-Minitek to DisplayPort

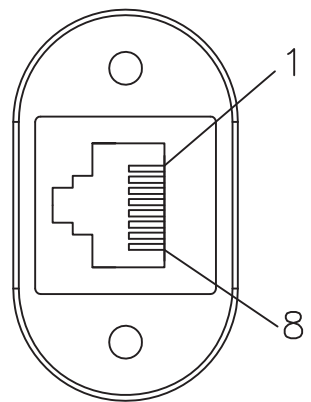
PART NO.
CBG113

DOCUMENT NO.
CTIC-00432

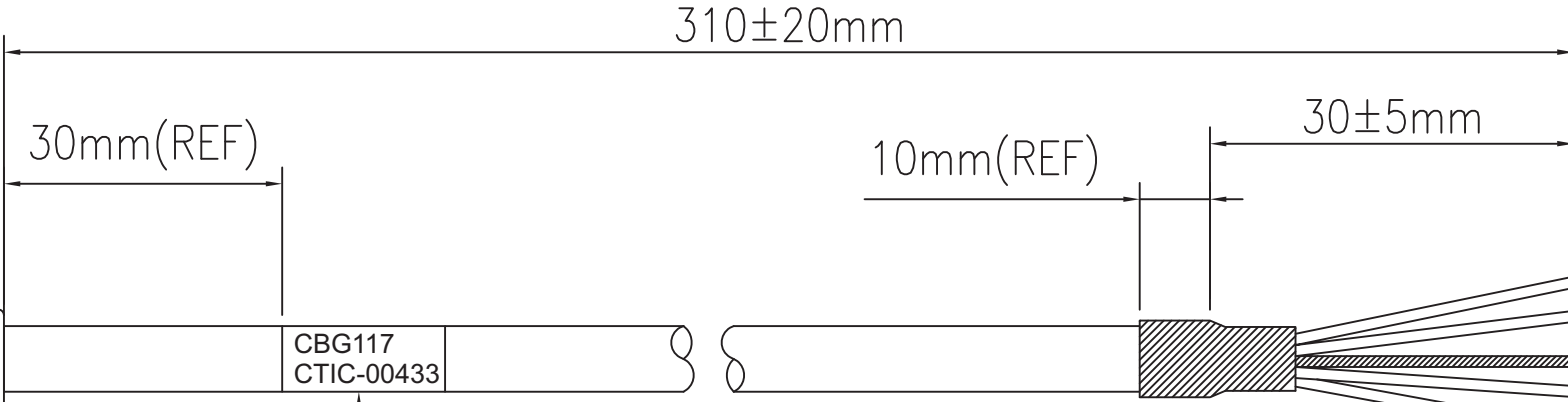
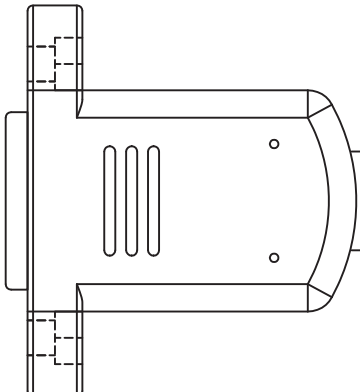
REV
0.01b

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	

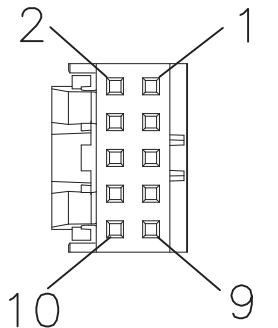
**RJ-45 8P8C Female
w/ Panel Mounts and Screws, Washers, Nuts**



P1(8P8C JACK)

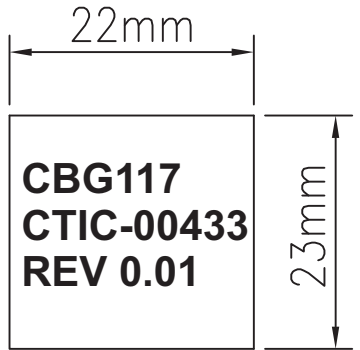


**FCI
MiniTek 10-pin
Housing
PN:10073599-010LF**



P2(10P HSG)

WHITE GROUND
BLACK PRINTING



LABEL

Pinout	
P1	P2
2 ORANGE	1
1 WHITE/ORANGE	2
6 GREEN	3
3 WHITE/GREEN	4
SHELL BRAID	5
SHELL BRAID	6
5 WHITE/BLUE	7
4 BLUE	8
8 BROWN	9
7 WHITE/BROWN	10

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:
DIMENSIONS ARE IN METRIC (MM)

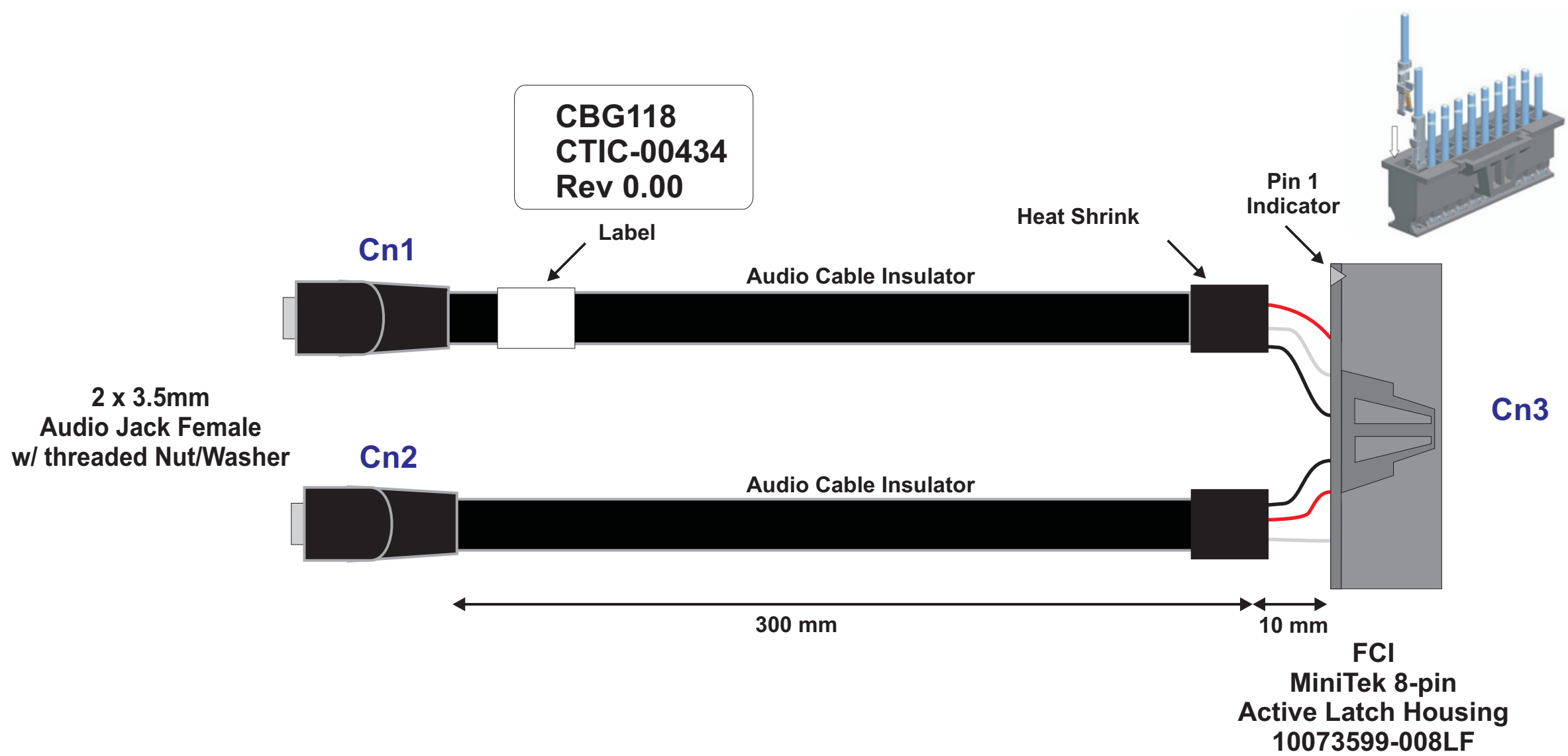
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CHECKED	DATE
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MFG APPR.	DATE
Q.A.	DATE

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NOT DRAWN TO SCALE		TITLE 10-Minitek to RJ45F
PART NO. CBG117		REV 0.01b
DOCUMENT NO. CTIC-00433		

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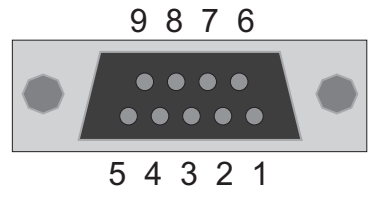
TITLE
**8-Pin Minitek to
2x 3.5 Audio Jacks**

PART NO.
CBG118

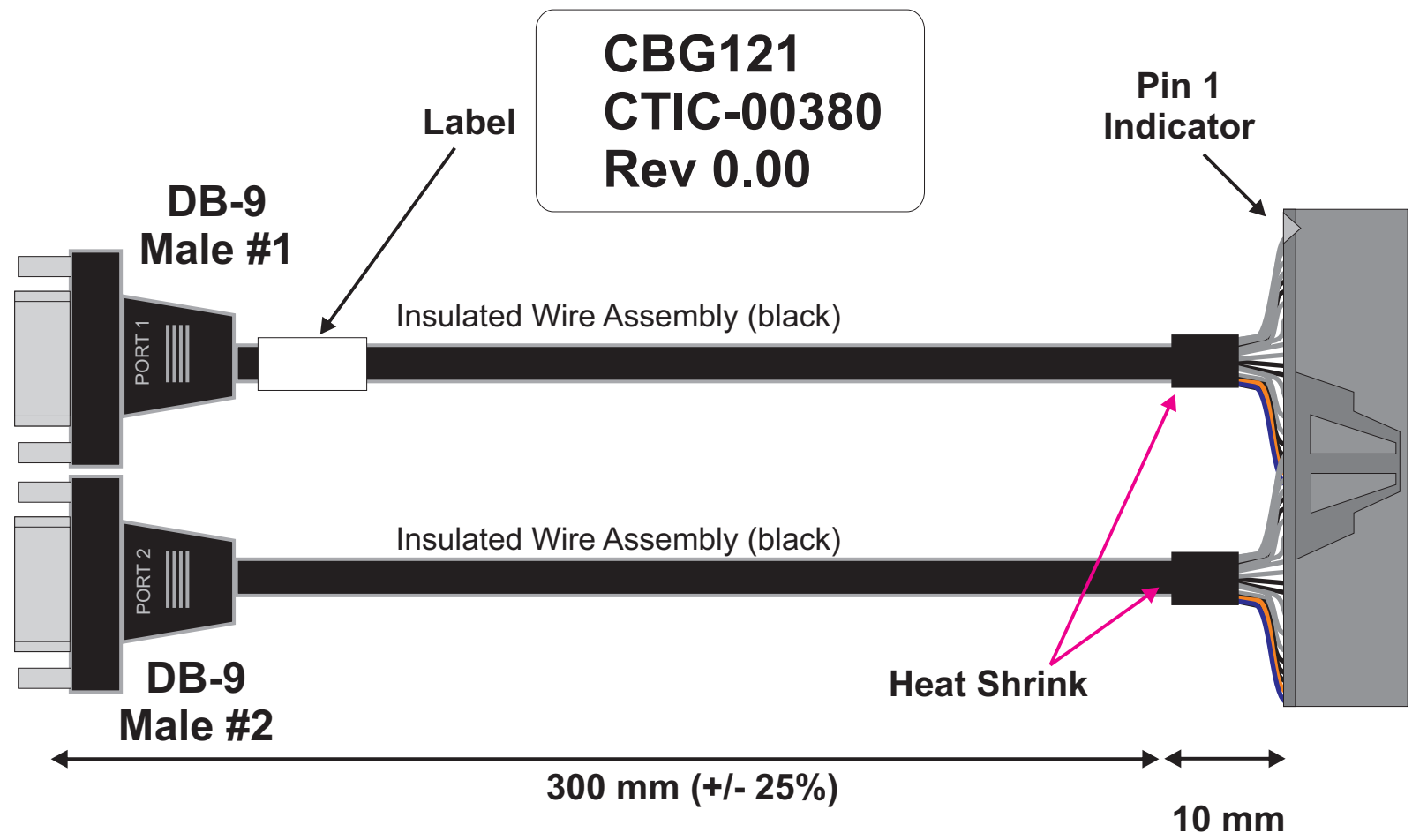
DOCUMENT NO.
CTIC-00434

REV
0.00b

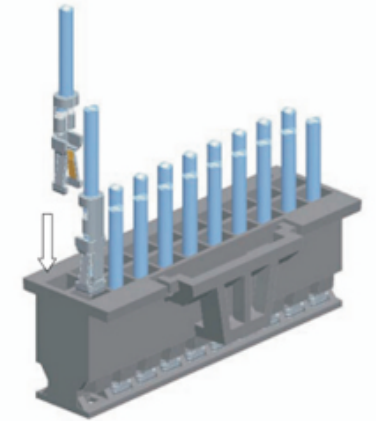
REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APPROVED
	0.00	Initial	2013-07-22	
	0.00b	Updated Template	2017-08-14	



Dual DB-9 Male Panel Mount Connectors with mouldings/covers and hex nut screws



**CBG121
CTIC-00380
Rev 0.00**



**FCI
MiniTek 20-pin
Active Latch Housing
10073599-020LF
crimps: 77138**

Pinout Information

DB9 #1	20-pin
1	1
6	2
2	3
7	4
3	5
8	6
4	7
9	8
5	9
	10
DB9 #2	
1	11
6	12
2	13
7	14
3	15
8	16
4	17
9	18
5	19
	20

Material Notes

- Cable must be made from **RoHS** compliant components
- Wires must be 26-30 AWG
- Hex nut screws on DB-9 connectors must be installed

ASSEMBLY & TEST PROCEDURE:	DRAWN PD	DATE 2017-08-14	Connect Tech Inc. <i>Embedded Computing Experts</i> 42 ARROW ROAD, GUELPH, ON, CANADA, N1K 1S6
	CHECKED	DATE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METRIC (MM)	ENG APPR.	DATE	TITLE 20-Pin Minitex to 2x DB9M
	MFG APPR.	DATE	
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	NOT DRAWN TO SCALE		PART NO. CBG121
			DOCUMENT NO. CTIC-00380
			REV 0.00b