

DO NOT
SCALE FROM
THIS PRINT

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**

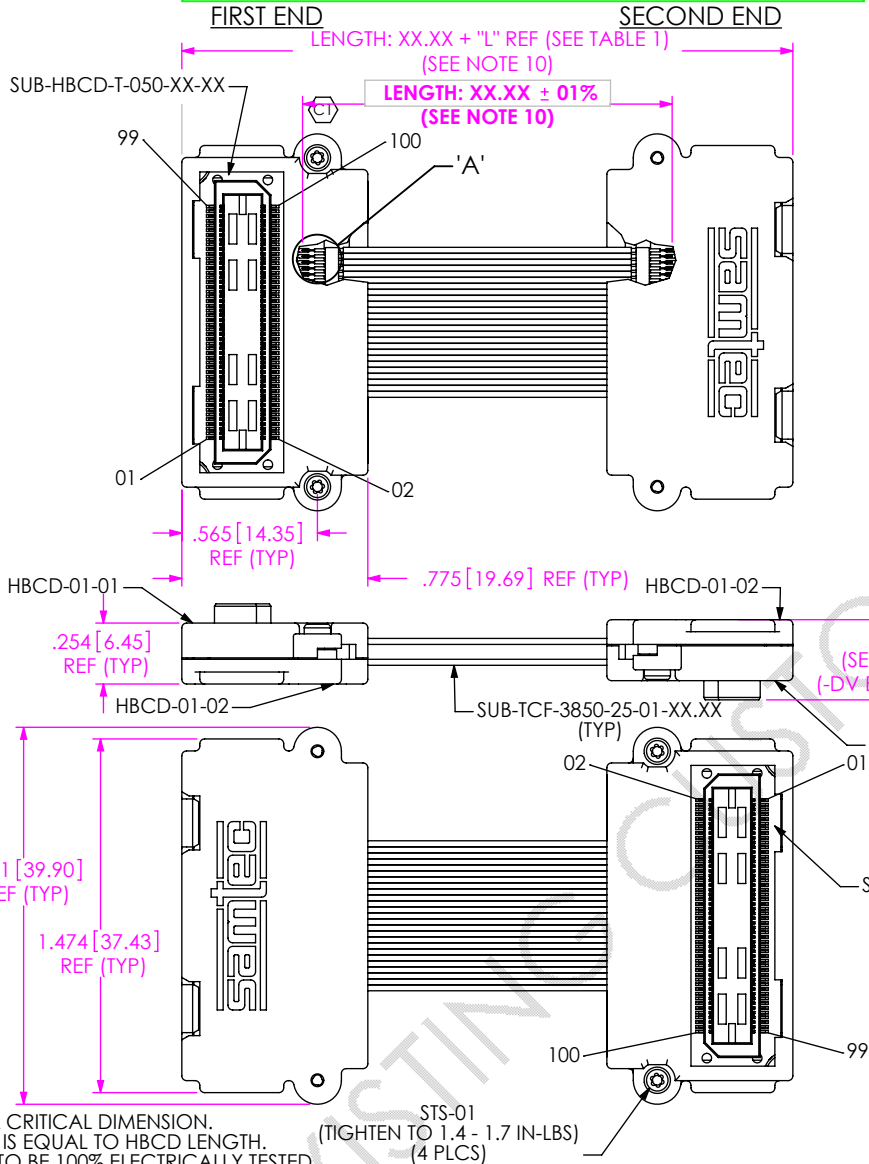


TABLE 2	
END	"A"
-SXX	0.294 [7.47]
-TXX	0.334 [8.48]

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. SUB-TCF LENGTH IS EQUAL TO HBCD LENGTH.
3. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
4. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
5. TOP SUB-TCF NOT SHOWN IN THIS VIEW FOR CLARITY; HDRL-11 TO BE CENTERED ON LOWER SUB-TCF AS SHOWN; HDRL-11 TO CONTAIN PART NUMBER, SHOP NUMBER, & DATE CODE.
6. PACKAGE ASSEMBLIES IN STATIC DISSIPATION BAGS.
7. PARTS TO BE PACKAGED PER SAMTEC ACCEPTABILITY REQUIREMENTS: HDR-PI-01 "CABLE ASSEMBLY WORKMANSHIP STANDARDS".
8. CABLE LENGTHS LONGER THAN 40.00 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
9. REFER TO PREP-SPEC DRAWING FOR CABLE PREP DIMENSIONS. ASSEMBLY USES STANDARD PCB PREP.
10. FOR CABLE LENGTHS LESS THAN 5 INCHES, CABLE LENGTH AND OVERALL LENGTH TOLERANCE IS ±0.05 INCHES. FOR CABLE LENGTHS GREATER THAN 5 INCHES, USE ±1% FOR BOTH.

TABLE 1	
END TO END	"L"
DV TO DV	0.998 [25.30]
DV TO EM (-TEX)	0.878 [22.30]
EM (-TEX) TO EM (-TEX)	0.780 [19.30]
EM (-TEX) TO EM (-SE)	0.730 [18.54]
DV-N TO DV-N	0.896 [22.76]
DV-N TO EM (-TEX)	0.828 [21.03]

F:\DWG\MISC\WKTG\HBCD-050-XX.XX-XXX-XXX-X-X-MKT.SLDDRW

HBCD-050-XX.XX-XXX-XXX-X-X

NO OF POSITIONS
-050 (PER ROW)
(1:1 SIG TO GND RATIO) (SEE TABLE 4)

LENGTH
-XX.XX (INCHES)
(01.72[43.7] MIN)
(SEE NOTE 2)
(SEE NOTE 8)

FIRST END
-TTR: TERMINAL, TOP, RIGHT
-TBR: TERMINAL, BOTTOM, RIGHT
-STR: SOCKET, TOP, RIGHT
-STL: SOCKET, TOP, LEFT
-SBR: SOCKET, BOTTOM, RIGHT
-SBL: SOCKET, BOTTOM, LEFT
(SEE SHEET 2)

-TEU: TERMINAL, EDGE MOUNT, UP
-TED: TERMINAL, EDGE MOUNT, DOWN
-SEU: SOCKET, EDGE MOUNT, UP
-SED: SOCKET, EDGE MOUNT, DOWN
(SEE SHEET 4)

* = NOT AVAILABLE WITH EDGE MOUNT

FIG 1
VERTICAL
(HBCD-050-XX.XX-TTR-TBL-X SHOWN)

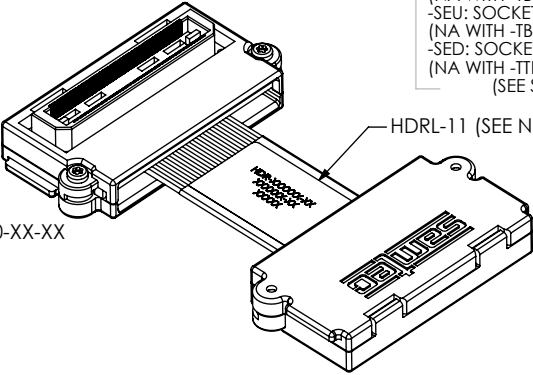


TABLE 4	
GROUND POSITIONS	
01, 02, 05, 06, 09, 10, 13, 14, 17, 18, 21, 22, 25, 26, 29, 30, 33, 34, 37, 38, 41, 42, 45, 46, 49, 50, 53, 54, 57, 58, 61, 62, 65, 66, 69, 70, 73, 74, 77, 78, 81, 82, 85, 86, 89, 90, 93, 94, 97, 98	

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01 [.3]
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

MATERIAL:
PLATING:
-H GOLD: 30µ" CONTACT

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:0.8

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.
HBCD-050-XX.XX-XXX-XXX-X-X

BY: BRATCHER 04/21/2004 SHEET 1 OF 6

END OPTION

- *F: SCREW OPTION FIRST END ONLY
- *S: SCREW OPTION SECOND END ONLY
- *B: SCREW OPTION BOTH ENDS
- N: NO CAPS
(SEE FIG. 3, SHEET 5 FOR EDGE
MOUNT END OPTIONS)
(SEE FIG. 4, SHEET 5 FOR DOUBLE
VERTICAL END OPTIONS)
(SEE FIG. 5, SHEET 5 FOR NO CAPS
OPTIONS)
(LEAVE BLANK FOR STANDARD CAPS
BOTH ENDS)

WIRING OPTION

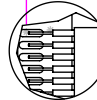
- 1: PIN 1 TO PIN 1
- 2: PIN 1 TO PIN 2
(SEE TABLE 3, SHEET 5)

SECOND END

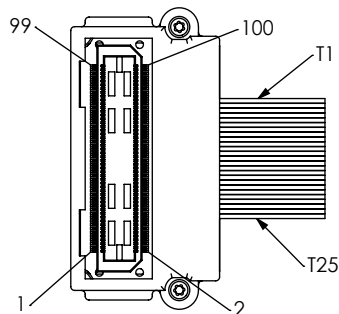
- TTL: TERMINAL, TOP, LEFT
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)
- TBL: TERMINAL, BOTTOM, LEFT
(NA WITH -TBR, -STR, -SBL, -TED, -SEU FIRST END)
- STR: SOCKET, TOP, RIGHT
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)
- STL: SOCKET, TOP, LEFT
(NA WITH -TBR, -STR, -SBL, -TED, -SEU FIRST END)
- SBR: SOCKET, BOTTOM, RIGHT
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)
- SBL: SOCKET, BOTTOM, LEFT
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)

- TEU: TERMINAL, EDGE MOUNT, UP
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)
- TED: TERMINAL, EDGE MOUNT, DOWN
(NA WITH -TBR, -STR, -SBL, -TED, -SEU FIRST END)
- SEU: SOCKET, EDGE MOUNT, UP
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)
- SED: SOCKET, EDGE MOUNT, DOWN
(NA WITH -TTR, -STL, -SBR, -TEU, -SED FIRST END)

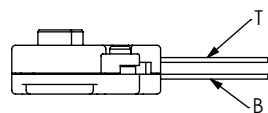
LENGTH
REF



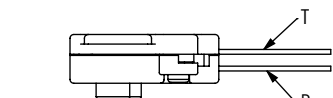
DETAIL 'A'
SCALE 2.5:1



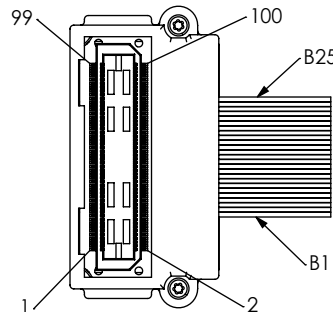
-TTR



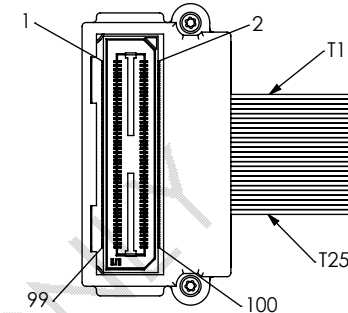
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B25
2	1	2	B25



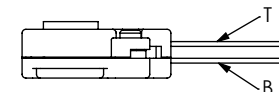
-TBR



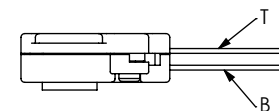
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T1
2	1	2	T1



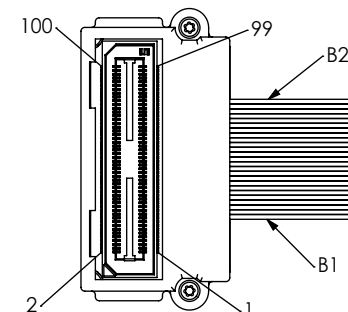
-STR



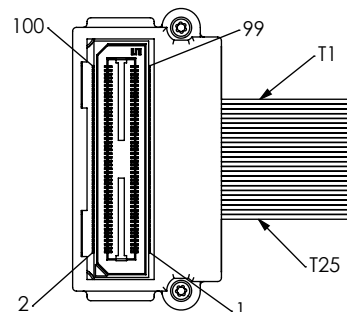
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B1
2	1	2	B1



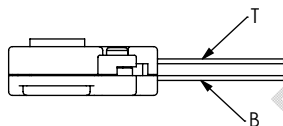
-SBL



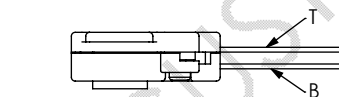
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B1
2	1	2	B1



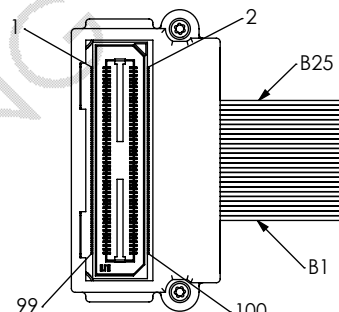
-STL



WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T25
2	1	2	T25



-SBR



WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T25
2	1	2	T25

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

samtec

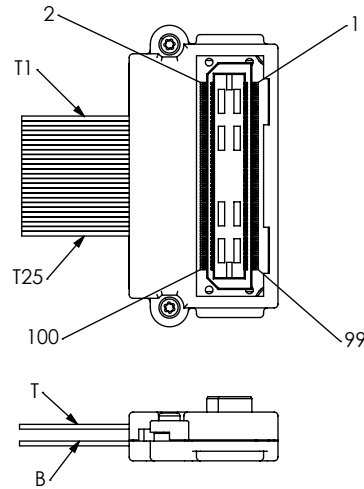
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.
HBCD-050-XX.XX-XXX-XXX-X-X

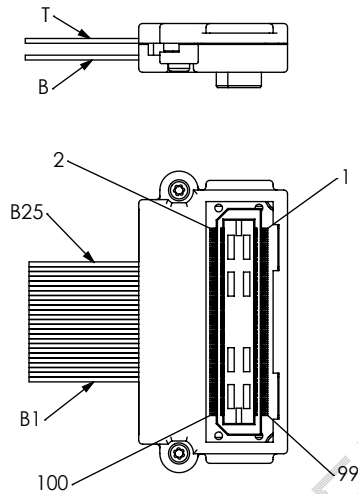
BY: BRATCHER 04/21/2004 SHEET 2 OF 6

-TTL



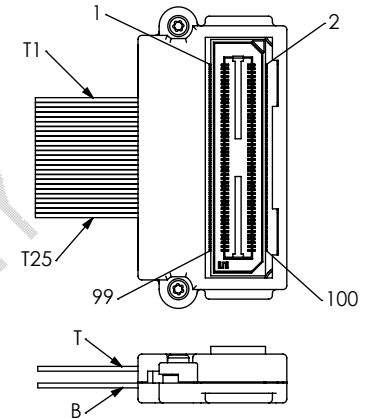
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-TBL



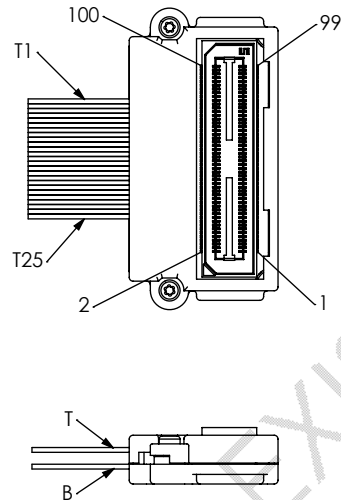
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-STR



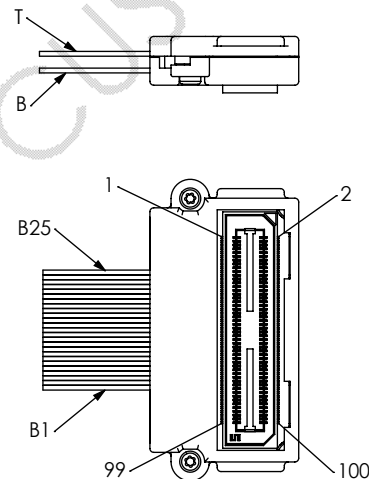
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-STL



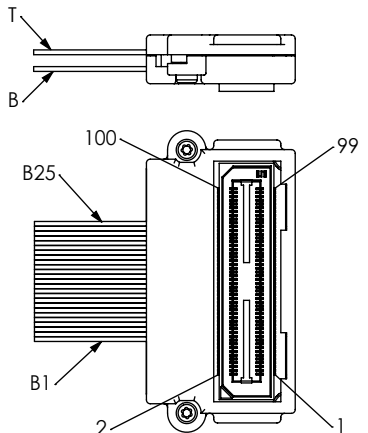
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-SBR



WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-SBL



WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

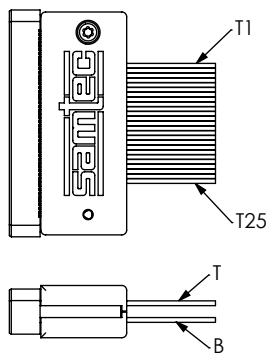
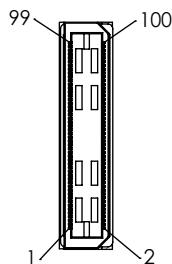
samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.
HBCD-050-XX.XX-XXX-XXX-X-X

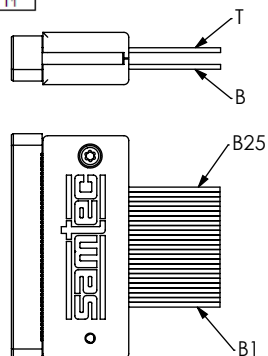
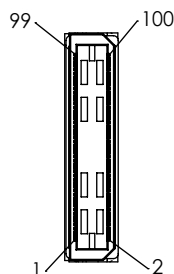
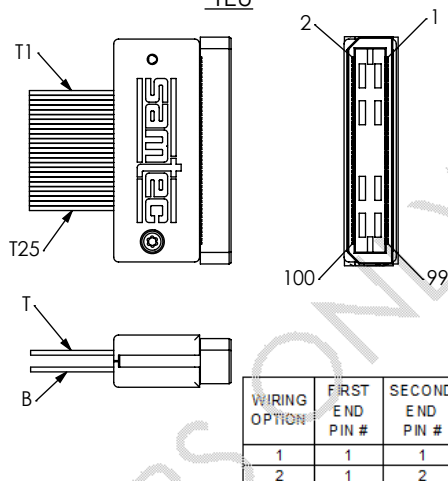
BY: BRATCHER 04/21/2004 SHEET 3 OF 6

-TEU

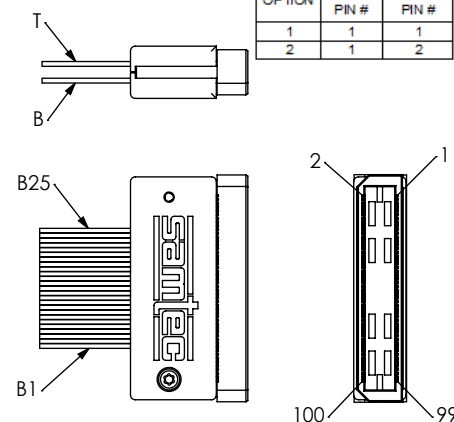
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	B25
2	1	2	B25

-TED

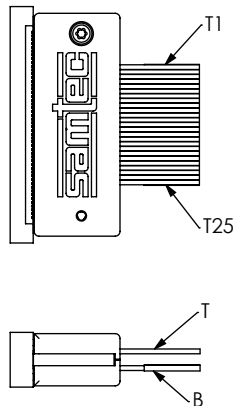
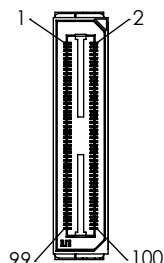
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	T1
2	1	2	T1

-TEU

WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-TED

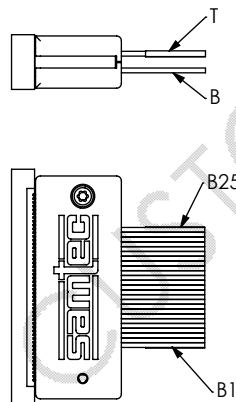
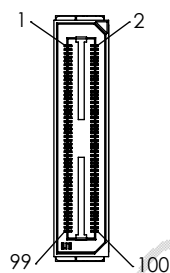
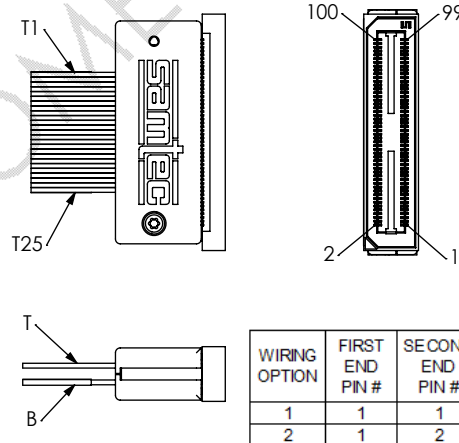
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-SEU

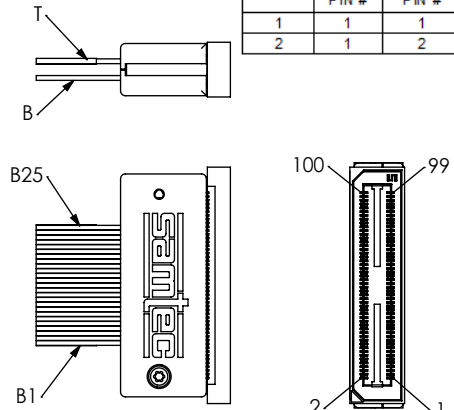
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	B1
2	1	2	B1

-SED

WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	T25
2	1	2	T25

-SEU

WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

-SED

WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2

.272[6.91] REF

LENGTH: XX.XX + ".1" REF (SEE TABLE 1, SHEET 1)

1.181[30.01]
REF

HBCD-01-03 (TYP)

SUB-HBCD-T-050-03-XX

F:\DWG\MISC\MKTG\HBCD-050-XX-XXX-XXX-X-X-MKT.SLDRW

FIG. 2

EDGE MOUNT (NO CAPTIVE PANEL SCREWS)
(HBCD-050-XX.XX-TED-TTL-X SHOWN)
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:

0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.

HBCD-050-XX.XX-XXX-XXX-X-X

BY: BRATCHER 04/21/2004 SHEET 4 OF 6

FIG. 3

EDGE MOUNT (WITH CAPTIVE PANEL SCREWS)
(HBCD-050-XX.XX-TED-XXX-X-F SHOWN)
(SAME AS FIG. 2, UNLESS OTHERWISE STATED)

* NOT TOOLED

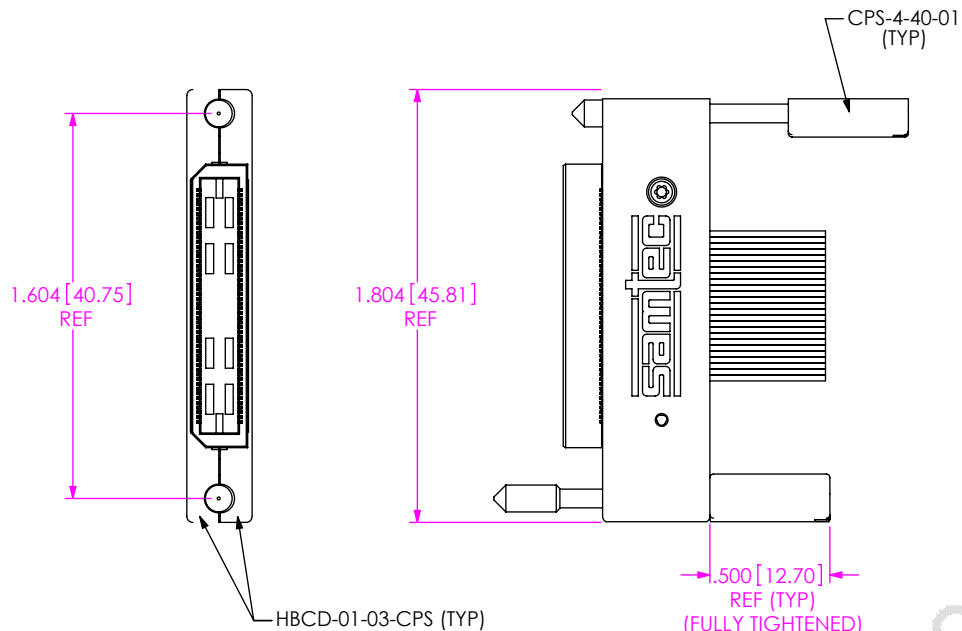
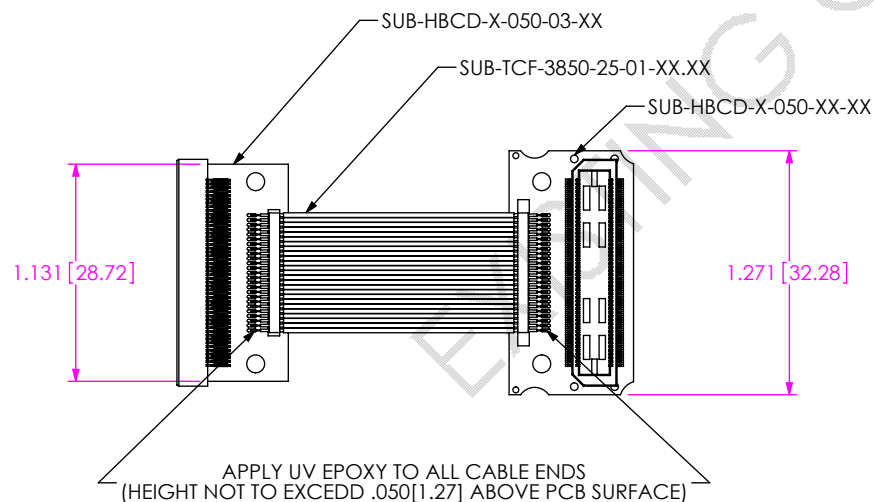


FIG. 5

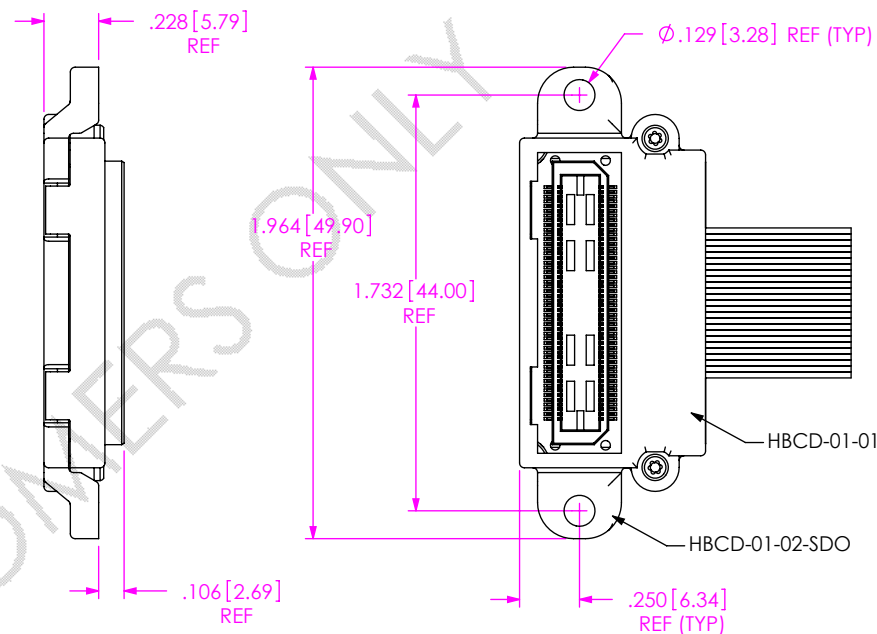
(HBCD-050-XX.XX-TED-TTL-N SHOWN)
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)



F:\DWG\MISC\MKTG\HBCD-050-XX.XX-XXX-XXX-X-MKT.SLDDRW

FIG. 4

DOUBLE VERTICAL (WITH SCREW DOWN OPTION)
(HBCD-050-XX.XX-TTR-XXX-X-F SHOWN)
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)



PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1.25:1

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:

0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.

HBCD-050-XX.XX-XXX-XXX-X-X

BY: BRATCHER 04/21/2004 SHEET 5 OF 6

TABLE 3

FIRST END OPTION	FIRST END SUB-HBCD-X- 050-XX-01	WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #	SECOND END OPTION (SUB-HBCD-X-050-XX-XX)									
						-TTL	-TBL	-STR	-STL	-SBR	-SBL	-TEU	-TED	-SEU	-SED
-TTR	-T-050-01-01	1	1	1	B30	N/A	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	-S-050-03-01	N/A
		2	1	2	B30	N/A	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	-S-050-03-02	N/A
		3	1	N-1	B30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	B30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-TBR	-T-050-01-01	1	1	1	T1	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	N/A	N/A	-S-050-03-01
		2	1	2	T1	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	N/A	N/A	-S-050-03-02
		3	1	N-1	T1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	T1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-STR	-S-050-01-01	1	1	1	B1	N/A	N/A	N/A	N/A	N/A	-S-050-01-02	N/A	N/A	N/A	N/A
		2	1	2	B1	N/A	N/A	N/A	N/A	N/A	-S-050-01-01	N/A	N/A	N/A	N/A
		3	1	N-1	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-STL	-S-050-02-01	1	1	1	T30	N/A	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	-S-050-03-02	N/A
		2	1	2	T30	N/A	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	-S-050-03-01	N/A
		3	1	N-1	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-SBR	-S-050-01-01	1	1	1	T30	N/A	N/A	N/A	-S-050-01-02	N/A	N/A	N/A	N/A	N/A	N/A
		2	1	2	T30	N/A	N/A	N/A	-S-050-01-01	N/A	N/A	N/A	N/A	N/A	N/A
		3	1	N-1	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-SBL	-S-050-02-01	1	1	1	B1	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-XXX-03-01	N/A	N/A	-S-050-03-02
		2	1	2	B1	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-XXX-03-02	N/A	N/A	-S-050-03-01
		3	1	N-1	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-TEU	-T-050-03-01	1	1	1	B30	N/A	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	-S-050-03-01	N/A
		2	1	2	B30	N/A	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	-S-050-03-02	N/A
		3	1	N-1	B30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	B30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-TED	-T-050-03-01	1	1	1	T1	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	N/A	N/A	-S-050-03-01
		2	1	2	T1	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	N/A	N/A	-S-050-03-02
		3	1	N-1	T1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	T1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-SEU	-S-050-03-01	1	1	1	B1	-T-050-01-01	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	N/A	N/A	-S-050-03-02
		2	1	2	B1	-T-050-01-02	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	N/A	N/A	-S-050-03-01
		3	1	N-1	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	B1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-SED	-S-050-03-01	1	1	1	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-T-050-03-01	-S-050-03-02	N/A
		2	1	2	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-T-050-03-02	-S-050-03-01	N/A
		3	1	N-1	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4	1	N	T30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 1:25:1

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:

0.5mm HIGH-SPEED COAX CABLE ASSEMBLY

DWG. NO.

HBCD-050-XX.XX-XXX-XXX-X-X

BY: BRATCHER 04/21/2004 SHEET 6 OF 6