

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

DO NOT
SCALE FROM
THIS PRINT

CABLE STYLE AND SIGNAL MAP

- 1: 34 AWG TwinAx 100OHM TX TO RX SIGNAL MAP
- 2: 30 AWG TwinAx 100OHM TX TO RX SIGNAL MAP
- 3: 34 AWG TwinAx 100OHM 1:1 SIGNAL MAP
- 4: 30 AWG TwinAx 100OHM 1:1 SIGNAL MAP
- *-5: 34 AWG TwinAx 92.5OHM TX TO RX SIGNAL MAP
- 6: 34 AWG ThinAx 92.5OHM TX TO RX SIGNAL MAP
- *-7: 34 AWG TwinAx 92.5OHM 1:1 SIGNAL MAP
- 8: 34 AWG ThinAx 92.5OHM 1:1 SIGNAL MAP

PAIRS PER COLUMN

-4: 4 PAIRS

COLUMNS

-04, -06, -08,
-10, -12, -14, -16

END 1 PIN CONFIGURATION

- 1: STANDARD
- *-2: ADVANCED MATE
- *-3: SHORT DETECT
- *-4: ADVANCED MATE
AND SHORT DETECT

END 2 KEY

A THRU H: DENOTES
POSITION OF FLAT ON KEY
N: NO KEY
(LEAVE BLANK FOR FV GUIDE)

END 2

- L: MALE, LEFT GUIDANCE
- R: MALE, RIGHT GUIDANCE
- FL: FEMALE, RA LEFT GUIDE
- FR: FEMALE, RA RIGHT GUIDE
- FV: FEMALE, VERTICAL
(FL,FR,FV ONLY AVAILABLE W/
-3,-4,-7,-8 SIGNAL MAP)

END 2 PIN CONFIGURATION

- 1: STANDARD
- *-2: ADVANCED MATE
- *-3: SHORT DETECT
- *-4: ADVANCED MATE
AND SHORT DETECT

CABLE LENGTH

-XX (INCHES)
(06 INCHES MINIMUM, SEE NOTE 3 & 6)

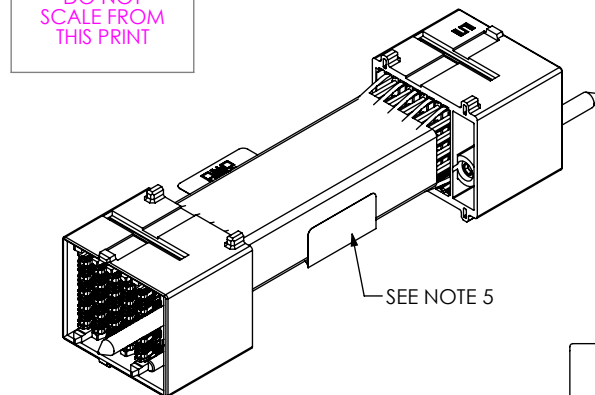
END 1 KEY

A THRU H: DENOTES
POSITION OF FLAT ON KEY
N: NO KEY

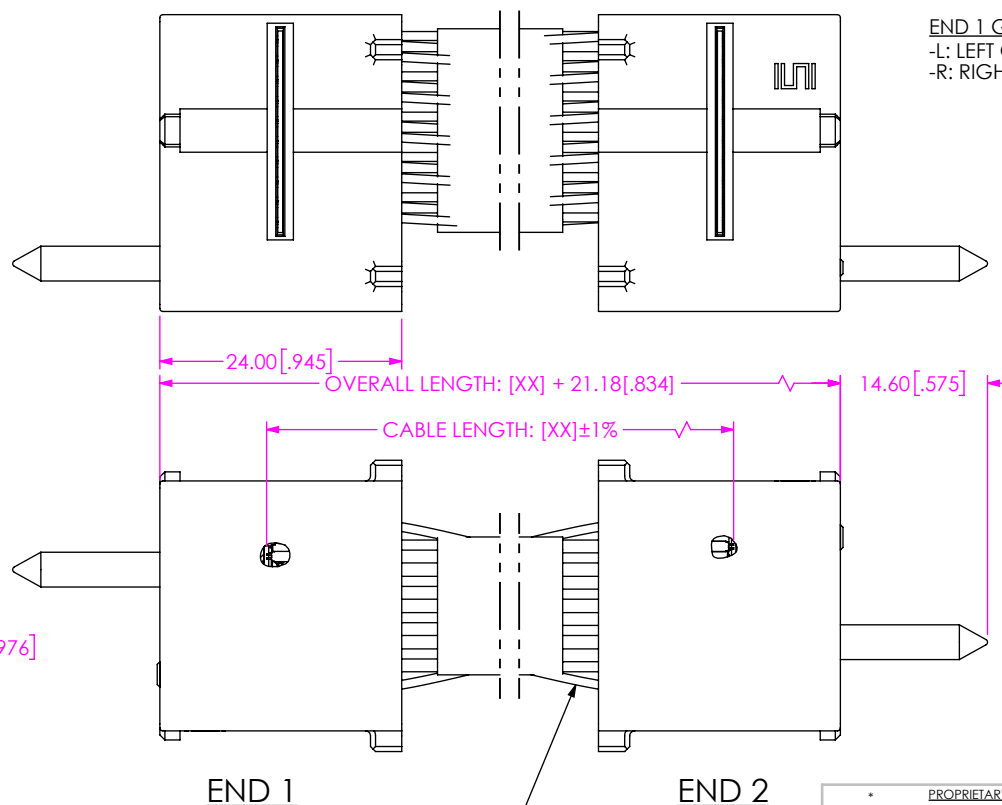
(* =NOT TOOLED)
(** =NOT RELEASED)

END 1 GUIDE

- L: LEFT GUIDANCE
- R: RIGHT GUIDANCE



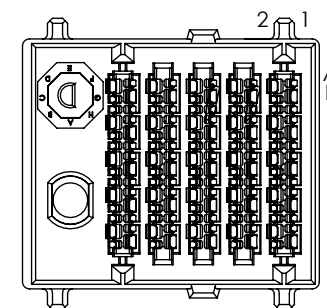
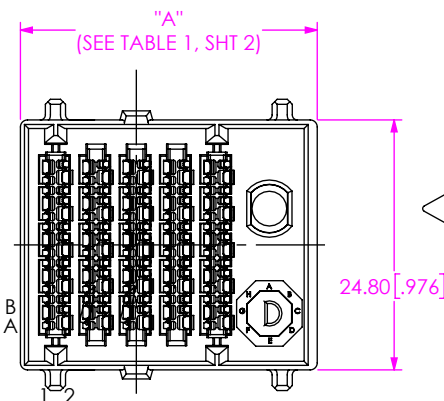
SEE NOTE 5



SEE NOTE 4

FIG 1

EBCM-X-4-10-1-L-G-XX-1-L-G SHOWN



NOTES:

1. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
2. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
3. CABLE LENGTHS LONGER THAN 40 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
4. LSX WIRE TO BE 34 AWG CO-AX STANDARD.
5. EBCM COMES STANDARD WITH SRS CABLE SLEEVING.
6. MAX STANDARD CABLE LENGTH IS 5 METERS. FOR LENGTHS GREATER THAN 5 METERS,
CONTACT HDR@SAMTEC.COM

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MATERIAL: DO NOT SCALE DRAWING
SHEET SCALE: 1:1
INSULATOR: LCP
SIGNAL & GROUND PINS: COPPER ALLOY
PLATING: 30µ" SELECTIVE GOLD IN
CONTACT AREA

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: EXAMAX BACKPLANE CABLE

DWG. NO. EBCM-X-4-XX-X-X-X-XX-X-XX-X

BY: JOE Z 06/02/2017 SHEET 1 OF 7

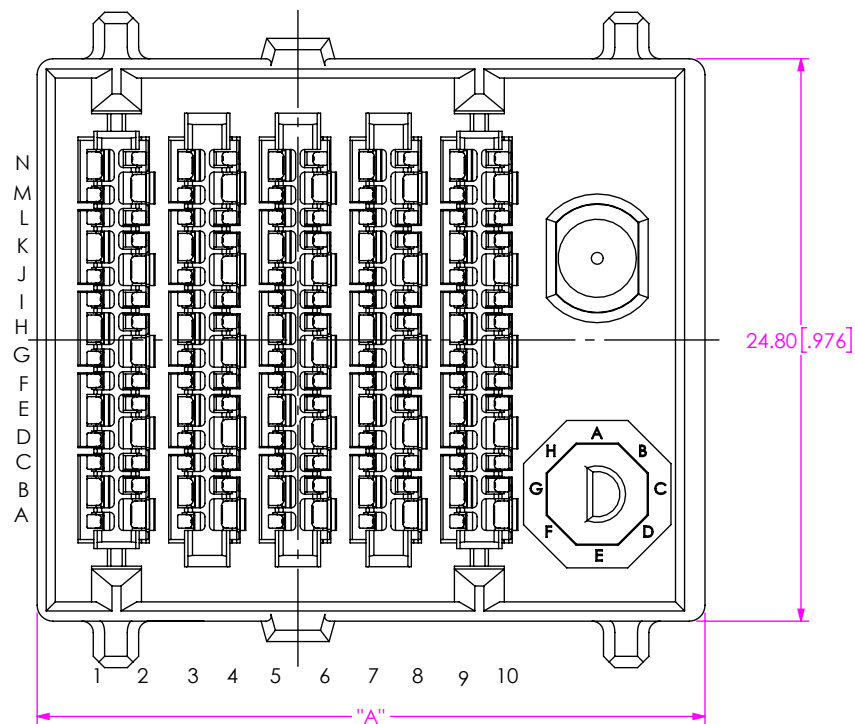


FIG 2
EBCM-X-4-10-1-L-G END 1 DETAILS SHOWN

TABLE 1	
COLUMNS	"A"
-04	17.450 [.6870]
-06	21.450 [.8445]
-08	25.450 [1.0020]
-10	29.450 [1.1594]
-12	33.450 [1.3169]
-14	37.450 [1.4744]
-16	41.450 [1.6319]

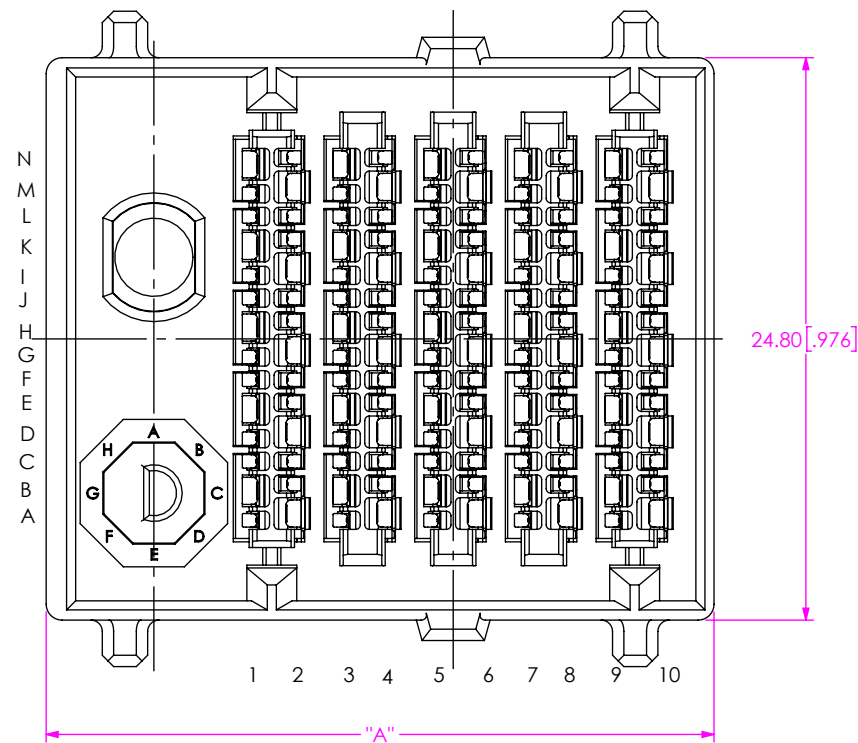


FIG 3
EBCM-X-4-10-1-R-G END 1 DETAILS SHOWN

F:\DWG\SW\Exisprod\Assembly\2mm\EBCM-X-4-XX-X-X-XX-X-XX-X.SLDDRW

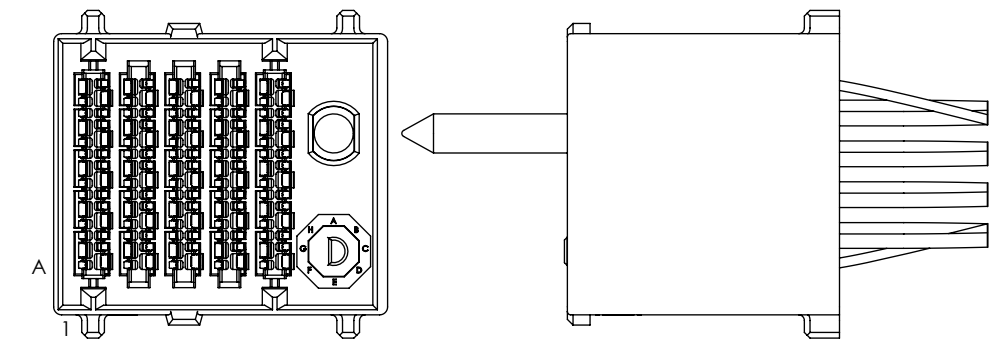
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	DESCRIPTION: EXAMAX BACKPLANE CABLE		
	DWG. NO. EBCM-X-4-XX-X-X-X-XX-X-XX-X		
	BY: JOE Z	06/02/2017	SHEET 2 OF 7

DO NOT SCALE DRAWING

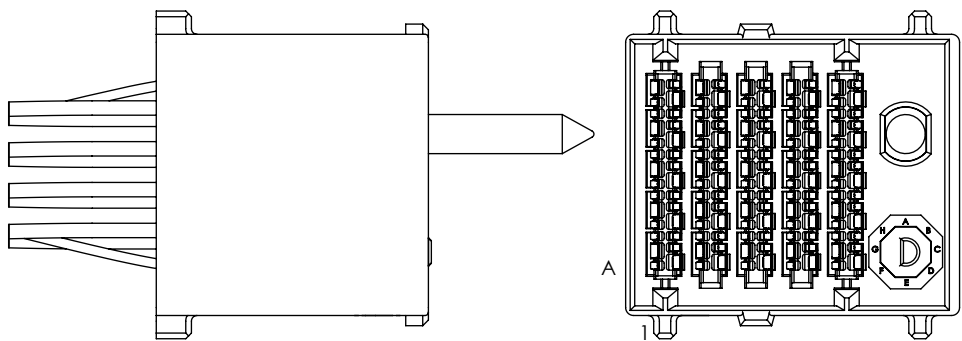
SHEET SCALE: 2.5:1

END 1 ORIENTATIONS

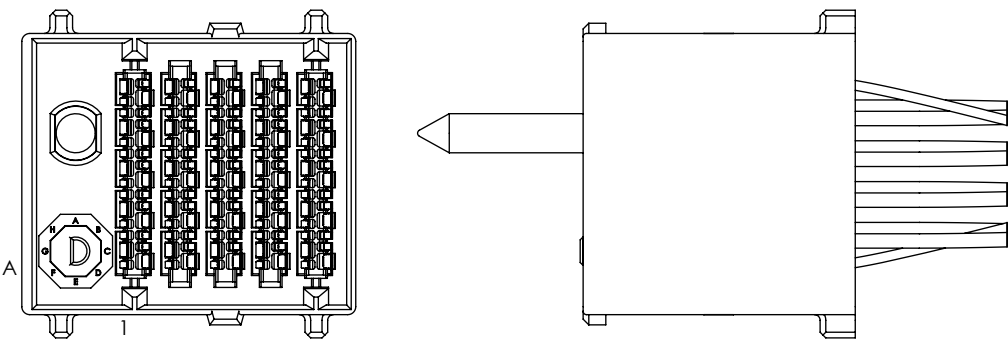
END 2 ORIENTATIONS



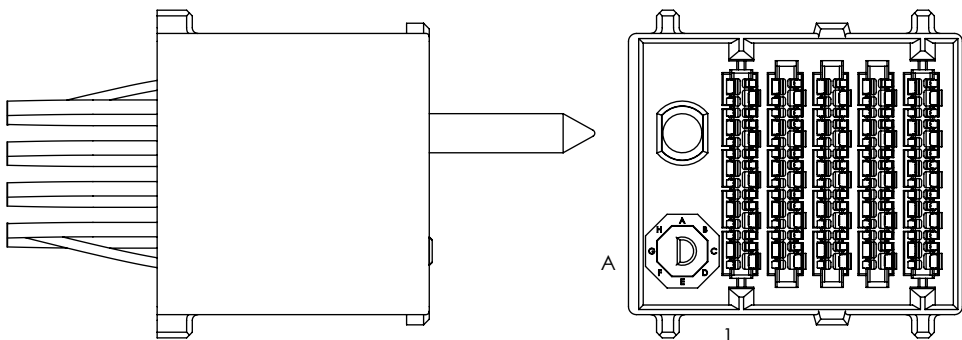
EBCM-X-4-10-X-L-G-XX-X-X-X SHOWN



EBCM-X-4-10-X-X-X-XX-X-L-G SHOWN

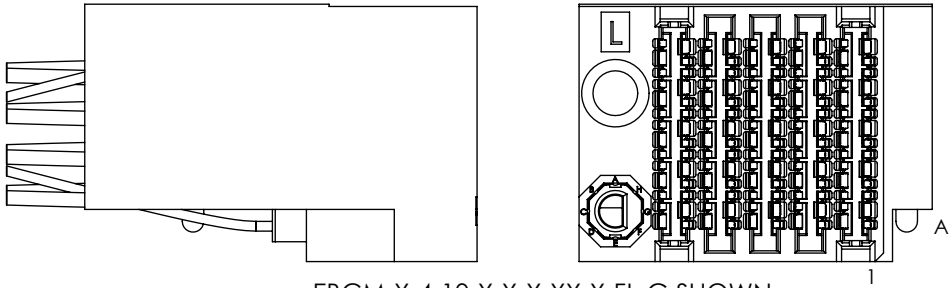


EBCM-X-4-10-X-R-G-XX-X-X-X SHOWN

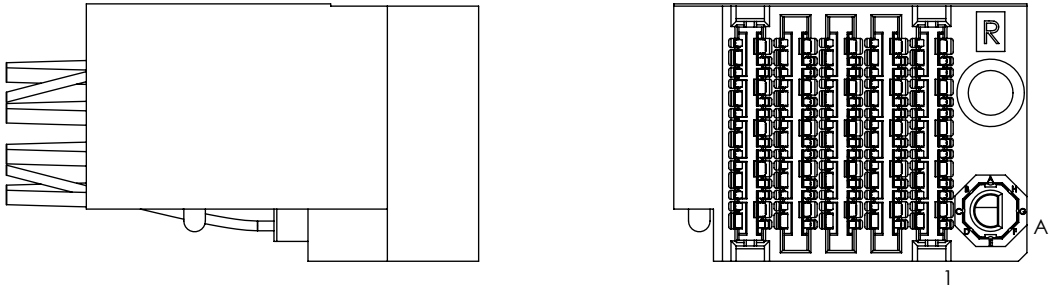


EBCM-X-4-10-X-X-X-XX-X-R-G SHOWN

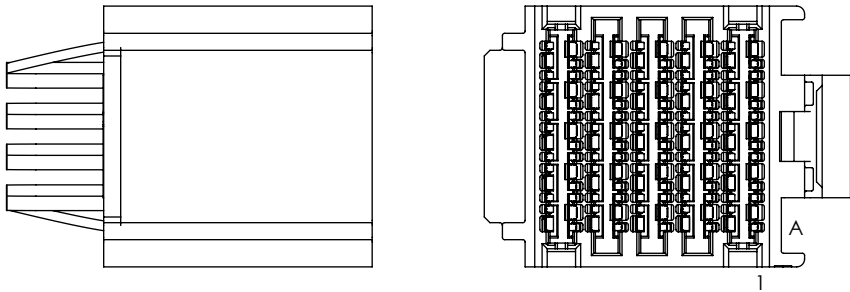
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DO NOT SCALE DRAWING SHEET SCALE: 1:1	DESCRIPTION: EXAMAX BACKPLANE CABLE
	DWG. NO. EBCM-X-4-XX-X-X-X-XX-X-XX-X
	BY: JOE Z 06/02/2017 SHEET 3 OF 7



EBCM-X-4-10-X-X-X-XX-X-FL-G SHOWN



EBCM-X-4-10-X-X-X-XX-X-FR-G SHOWN



EBCM-X-4-10-X-X-X-XX-X-FV SHOWN

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DO NOT SCALE DRAWING			DESCRIPTION: EXAMAX BACKPLANE CABLE
SHEET SCALE: 1:1			DWG. NO. EBCM-X-4-XX-X-X-X-XX-X-XX-X
		BY: JOE Z 06/02/2017 SHEET 4 OF 7	

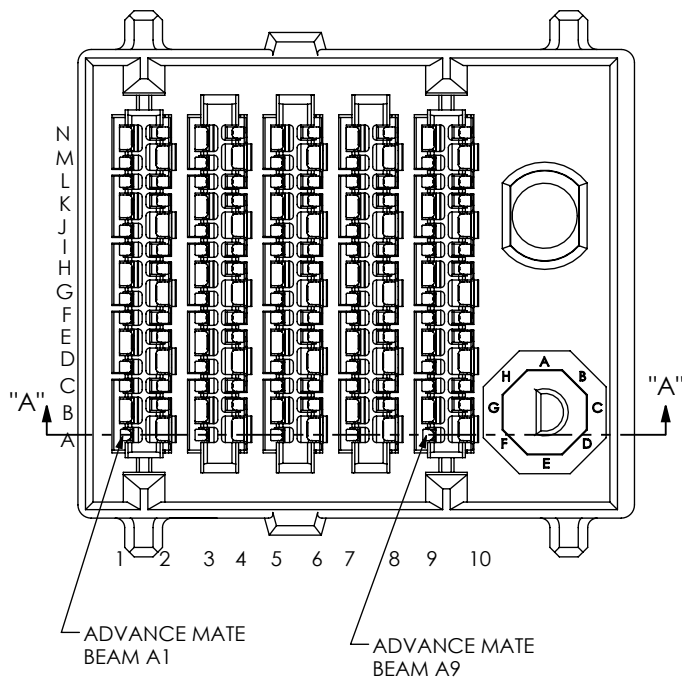
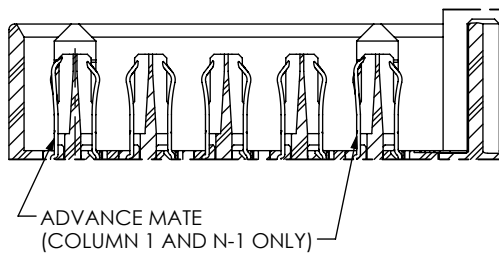


FIG 4
EBCM-X-4-10-2-L-G SHOWN
(DIFFERENT AS AHWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)



SECTION "A"-"A"
SCALE 2.5 : 1

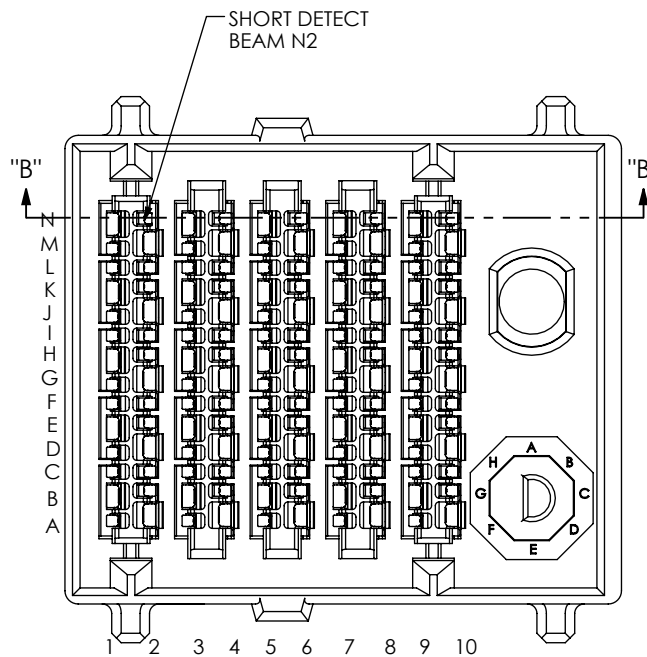
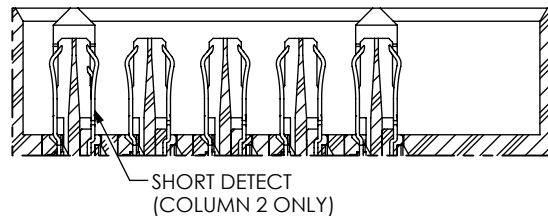


FIG 5
EBCM-X-4-10-3-L-G SHOWN
(DIFFERENT AS AHWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)



SECTION "B"-"B"
SCALE 2.5 : 1

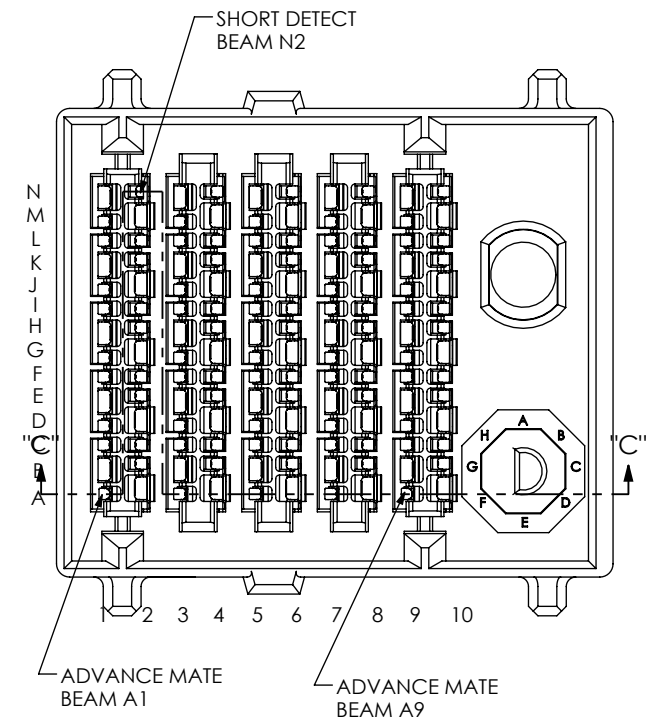
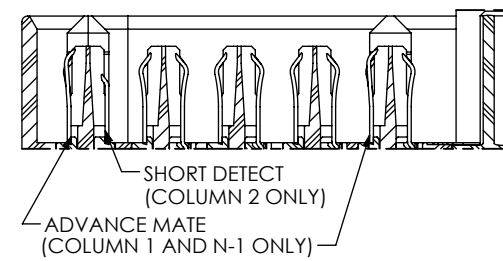


FIG 6
EBCM-X-4-10-4-L-G SHOWN
(DIFFERENT AS AHWN, OTHERWISE SAME AS FIG 1)
(NOT TOOLED)



SECTION "C"-"C"
SCALE 2.5 : 1

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SHEET SCALE: 2.8:1

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

DESCRIPTION:
EXAMAX BACKPLANE CABLE

DWG. NO.
EBCM-X-4-XX-X-X-X-XX-X-XX-X

BY: JOE Z 06/02/2017 SHEET 5 OF 7

ROW	TABLE 2, 4 PAIR PIN-OUT															
N	GND	LS2	GND	LS4	GND	LS6	GND	LS8	GND	LS10	GND	LS12	GND	LS14	GND	LS16
M	TX1+	GND	TX5+	GND	TX9+	GND	TX13+	GND	TX17+	GND	TX21+	GND	TX25+	GND	TX29+	GND
L	TX1-	TX3+	TX5-	TX7+	TX9-	TX11+	TX13-	TX15+	TX17-	TX19+	TX21-	TX23+	TX25-	TX27+	TX29-	TX31+
K	GND	TX3-	GND	TX7-	GND	TX11-	GND	TX15-	GND	TX19-	GND	TX23-	GND	TX27-	GND	TX31-
J	TX2+	GND	TX6+	GND	TX10+	GND	TX14+	GND	TX18+	GND	TX22+	GND	TX26+	GND	TX30+	GND
I	TX2-	TX4+	TX6-	TX8+	TX10-	TX12+	TX14-	TX16+	TX18-	TX20+	TX22-	TX24+	TX26-	TX28+	TX30-	TX32+
H	GND	TX4-	GND	TX8-	GND	TX12-	GND	TX16-	GND	TX20-	GND	TX24-	GND	TX28-	GND	TX32-
G	RX2-	GND	RX6-	GND	RX10-	GND	RX14-	GND	RX18-	GND	RX22-	GND	RX26-	GND	RX30-	GND
F	RX2+	RX4-	RX6+	RX8-	RX10+	RX12-	RX14+	RX16-	RX18+	RX20-	RX22+	RX24-	RX26+	RX28-	RX30+	RX32-
E	GND	RX4+	GND	RX8+	GND	RX12+	GND	RX16+	GND	RX20+	GND	RX24+	GND	RX28+	GND	RX32+
D	RX1-	GND	RX5-	GND	RX9-	GND	RX13-	GND	RX17-	GND	RX21-	GND	RX25-	GND	RX29-	GND
C	RX1+	RX3-	RX5+	RX7-	RX9+	RX11-	RX13+	RX15-	RX17+	RX19-	RX21+	RX23-	RX25+	RX27-	RX29+	RX31-
B	GND	RX3+	GND	RX7+	GND	RX11+	GND	RX15+	GND	RX19+	GND	RX23+	GND	RX27+	GND	RX31+
A	LS1	GND	LS3	GND	LS5	GND	LS7	GND	LS9	GND	LS11	GND	LS13	GND	LS15	GND
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WAFER	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B

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SHEET SCALE: 3:1

DESCRIPTION:
EXAMAX BACKPLANE CABLE

DWG. NO.
EBCM-X-4-XX-X-X-X-XX-X-XX-X

BY: JOE Z 06/02/2017 SHEET 6 OF 7

4 PAIR SIGNAL MAPPING FOR -1, -2, -5 & -6 SIGNAL MAP OPTIONS										
ODD NUMBER COLUMNS						EVEN NUMBER COLUMNS				
END 1			END 2			END 1			END 2	
POSITION	SYMBOL		POSITION	SYMBOL		POSITION	SYMBOL		POSITION	SYMBOL
N1	GND	PAIR	B1	GND		N2	LS2	PAIR	N2	LS2
M1	TX1+		C1	RX1+		M2	GND		A2	GND
L1	TX1-		D1	RX1-		L2	TX3+		B2	RX3+
K1	GND		E1	GND		K2	TX3-	PAIR	C2	RX3-
J1	TX2+	PAIR	F1	RX2+		J2	GND		D2	GND
I1	TX2-		G1	RX2-		I2	TX4+		E2	RX4+
H1	GND		H1	GND		H2	TX4-	F2	RX4-	
G1	RX2-	PAIR	I1	TX2-	G2	GND		G2	GND	
F1	RX2+		J1	TX2+	F2	RX4-	PAIR	H2	TX4-	
E1	GND		K1	GND	E2	RX4+		I2	TX4+	
D1	RX1-	PAIR	L1	TX1-	D2	GND			J2	GND
C1	RX1+		M1	TX1+	C2	RX3-	PAIR	K2	TX3-	
B1	GND		N1	GND	B2	RX3+		L2	TX3+	
A1	LS1		A1	LS1	A2	GND			M2	GND
ALL GROUNDS ARE COMMON AND TIED TO CABLE SHIELD										

4 PAIR SIGNAL MAPPING FOR -3, -4, -7 & -8 SIGNAL MAP OPTIONS										
ODD NUMBER COLUMNS						EVEN NUMBER COLUMNS				
END 1			END 2			END 1			END 2	
POSITION	SYMBOL		POSITION	SYMBOL		POSITION	SYMBOL		POSITION	SYMBOL
N1	GND	PAIR	N1	GND		N2	LS2	PAIR	N2	LS2
M1	TX1+		M1	TX1+		M2	GND		M2	GND
L1	TX1-		L1	TX1-		L2	TX3+		L2	TX3+
K1	GND	PAIR	K1	GND		K2	TX3-	PAIR	K2	TX3-
J1	TX2+		J1	TX2+		J2	GND		J2	GND
I1	TX2-		I1	TX2-	I2	TX4+	I2		TX4+	
H1	GND	PAIR	H1	GND	H2	TX4-	PAIR	H2	TX4-	
G1	RX2-		G1	RX2-	G2	GND		G2	GND	
F1	RX2+		F1	RX2+	F2	RX4-		F2	RX4-	
E1	GND	PAIR	E1	GND	E2	RX4+	PAIR	E2	RX4+	
D1	RX1-		D1	RX1-	D2	GND		D2	GND	
C1	RX1+		C1	RX1+	C2	RX3-		C2	RX3-	
B1	GND	PAIR	B1	GND	B2	RX3+	PAIR	B2	RX3+	
A1	LS1		A1	LS1	A2	GND		A2	GND	
ALL GROUNDS ARE COMMON AND TIED TO CABLE SHIELD										

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 e-Mail: info@SAMTEC.com code 55322

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

DESCRIPTION:
EXAMAX BACKPLANE CABLE

DWG. NO.
EBCM-X-4-XX-X-X-X-XX-X-XX-X

BY: JOE Z 06/02/2017 SHEET 7 OF 7