

DO NOT  
SCALE FROM  
THIS PRINT

TABLE 1

PART NUMBER	"B"
RPCE-XX-X-XX.XX-D-C5E	17.00 [.67]
RPCE-XX-X-XX.XX-BC-C5E	3.50 [.14]

DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]

RPCE-XX-X-XX.XX-XX-C5E

CABLE STYLE  
-01: OUTDOOR UL

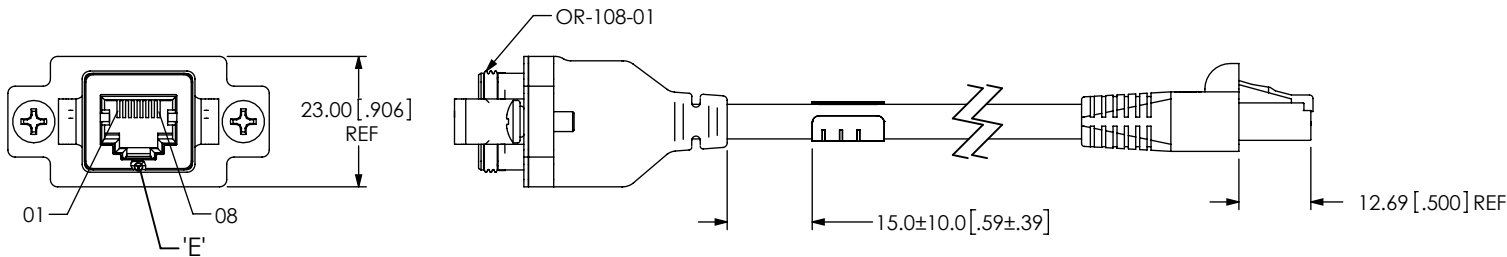
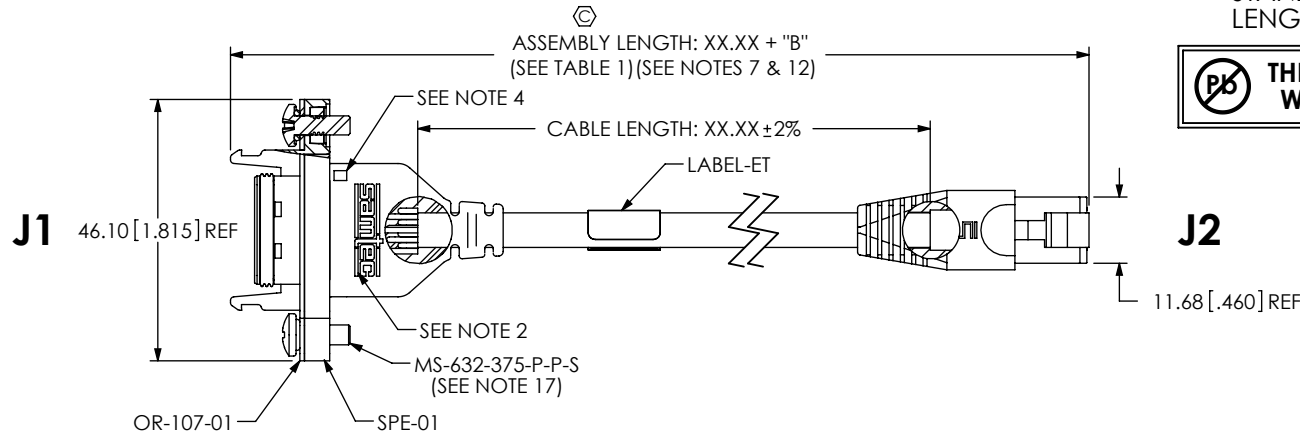
END OPTION  
-D: DOUBLE ENDED  
-BC: BLUNT CUT  
(SEE FIG. 2, SHEET 2)

PLATING SPECIFICATION  
-E: .000050" GOLD ON CONTACT  
AREAS, NICKEL ON SHELLS

CABLE LENGTH\*  
-XX.XX  
[0.17M[6.69] MIN - 50.00M[1968.50] MAX]

\* -00.25 AND -00.50 ARE CATALOG  
STANDARD LENGTHS, FOR OTHER  
LENGTHS CONTACT SAMTEC

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



NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. SAMTEC LOGO SHALL APPEAR AT ONE EQUALLY SPACED LOCATION ON SURFACE SHOWN, APPROXIMATELY 16.5[.724] x 5.0[.197].
3. MOLDED SURFACES SHALL BE CONSISTENT AND SMOOTH. SURFACES TO BE FREE OF SCRATCHES, NICKS, SINK AREAS, VOIDS, OR OTHER BLEMISHES.
4. ALL MULTIPLE CAVITY MOLDS SHALL IDENTIFY EACH CAVITY WITH A NUMBER DESIGNATION LOCATED WHERE SHOWN.
5. ALL IDENTIFICATION MARKS SHALL NOT STAND GREATER THAN 0.05[.002] OFF THE SURFACE OF THE PART.
6. MOLD TO BE INSERTED TO ACCEPT DIFFERENT CABLE DIAMETERS.
7. ASSEMBLY TO BE 100% ELECTRICALLY TESTED TO CAT5CH USING FLUKE DTX-1800 CABLE ANALYZER. AFTER FINAL ELECTRICAL TEST, LABEL WITH 1 LABEL-ET.
8. ALL EJECTION PIN AND GATE LOCATIONS MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
9. ANY ADDITIONAL VOIDING AND/OR MODIFICATIONS TO VOIDING MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
10. ALL DRAFT MUST BE WITHIN THE SPECIFIED TOLERANCES.
11. ALL INSIDE/OUTSIDE RADII 0.13[.005] MAX UNLESS OTHERWISE STATED.
12. TOLERANCE SHALL BE ±2% FOR ALL LENGTHS.
13. PANEL THICKNESS: 0.08[.030] - 3.96[.156], RECOMMENDED PANEL CUT OUT ON SHEET 3.
14. BURR ALLOWANCE: 0.038[.0015] MAX.
15. MINIMUM PUSHOUT FORCE: 4.4N[1.00 LB].
16. ASSEMBLY TO BE ONE CABLE PER BAG, USE ASBBLTXXXX BUBBLE BAGS.
17. SEALING O-RING IS INCLUDED WITH MS-632-375-P-P-S.
18. REQUIRED TORQUE ON MS-632-375-P-P-S: .32 ± .07 Nm [45 ± 10 IN-OZ].
19. OR-108-XX POSITION INDICATOR.

FIG 1  
RPCE-01-E-XX.XX-D-C5E SHOWN

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [.01] 2°  
X.XX: ±0.13 [.005]  
X.XXX: ±0.051 [.0020]

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**MATERIAL:** DO NOT SCALE DRAWING  
INSULATOR: GLASS FILLED THERMOPLASTIC  
CONTACT: PHOS BRONZE  
SHIELD: PHOS BRONZE  
OVERMOLD: RITE FLEX 640F  
SEAL: NBR  
NUT: STAINLESS STEEL  
SCREW: STAINLESS STEEL  
O-RING: SILICONE  
F:\DWG\MISC\VMKTG\RPCE-XX-X-XX.XX-XX-C5E-MKT.SLDDRW

SHEET SCALE: 3:4

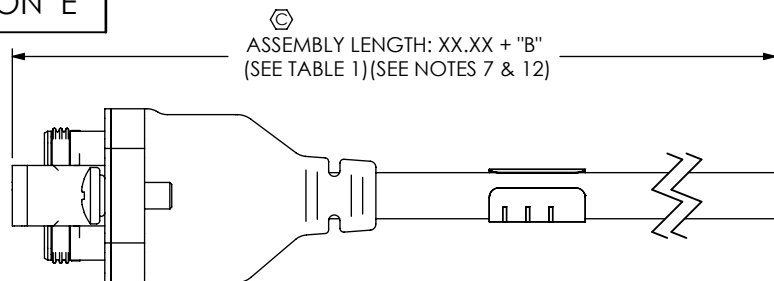
**DESCRIPTION:**  
SEAL RECTANGULAR RECEPTACLE, ETHERNET  
DWG. NO.  
**RPCE-XX-X-XX.XX-XX-C5E**  
BY: T NEWTON 12/10/2009 SHEET 1 OF 6

**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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e-Mail: info@SAMTEC.com code 55322

# REVISION E

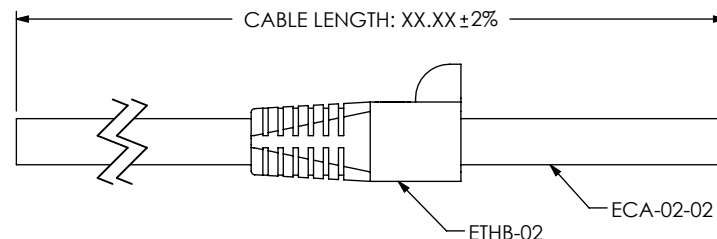
J1



**FIG. 2**  
RPCE-01-E-XX.XX-BC-C5E  
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

**-D: IN-PROCESS 1**  
(CUT CABLE TO LENGTH AND ADD ETHB-02)

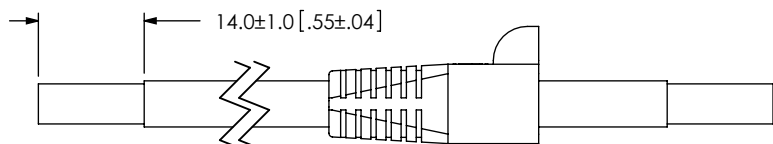
J1



J2

**-D: IN-PROCESS 2**  
(STRIP OUTER JACKET)

J1

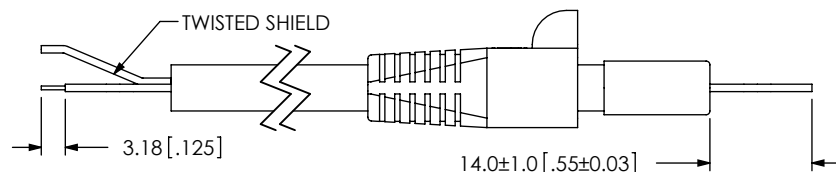


J2

**-D: IN-PROCESS 3**

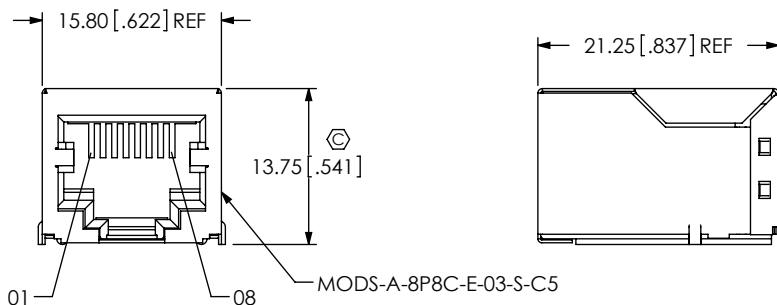
J1 END: TWIST SHIELD TO FORM SINGLE CONDUCTOR.  
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN & TIN DIP  
J2 END: FOLD BACK SHIELD

J1

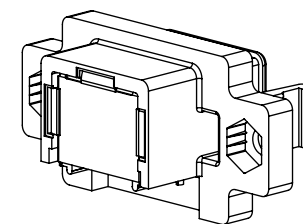
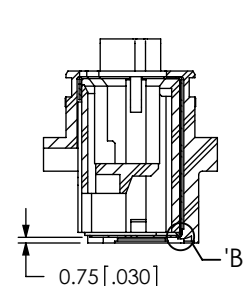
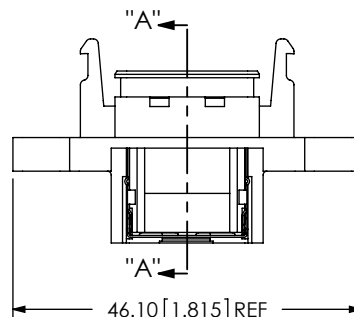


J2

**-D: IN-PROCESS 4**  
REMOVE SHIELD TAB FROM MODS-A-8P8C-E-03-S-C5

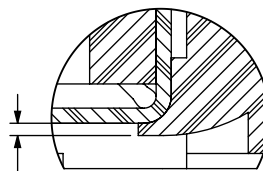
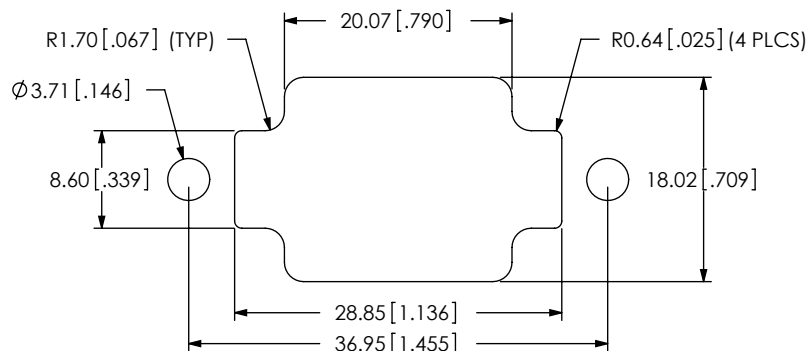


**-D: IN-PROCESS 5**  
FILL SPE-01 & HEAT STAKE



**SECTION "A"-"A"**

**RECOMMENDED PANEL CUT OUT**  
(SEE NOTE 13)



Ø 0.10 [.004] MIN.  
(AFTER HEAT STAKE)  
(TYP)

**DETAIL 'B'**  
**SCALE 8 : 1**

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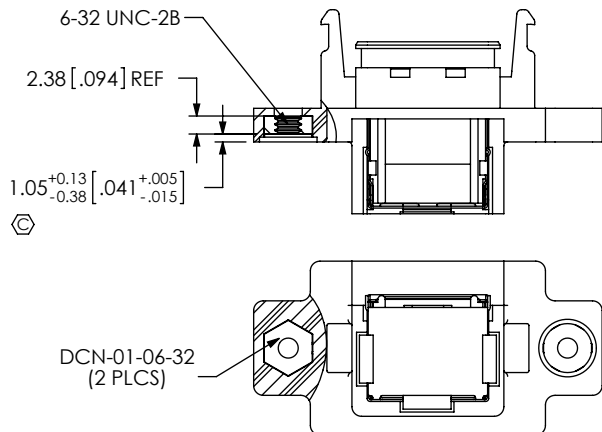
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SEAL RECTANGULAR RECEPTACLE, ETHERNET

DWG. NO.  
**RPCE-XX-X-XX.XX-XX-C5E**

BY: T NEWTON 12/10/2009 SHEET 2 OF 6

# REVISION E

-D: IN-PROCESS 6  
FILL DCN-01-06-32 & HEAT STAKE



-D: IN-PROCESS 7  
SOLDER PCB-102392-01

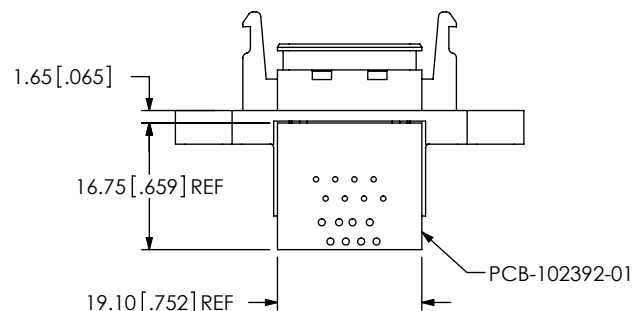
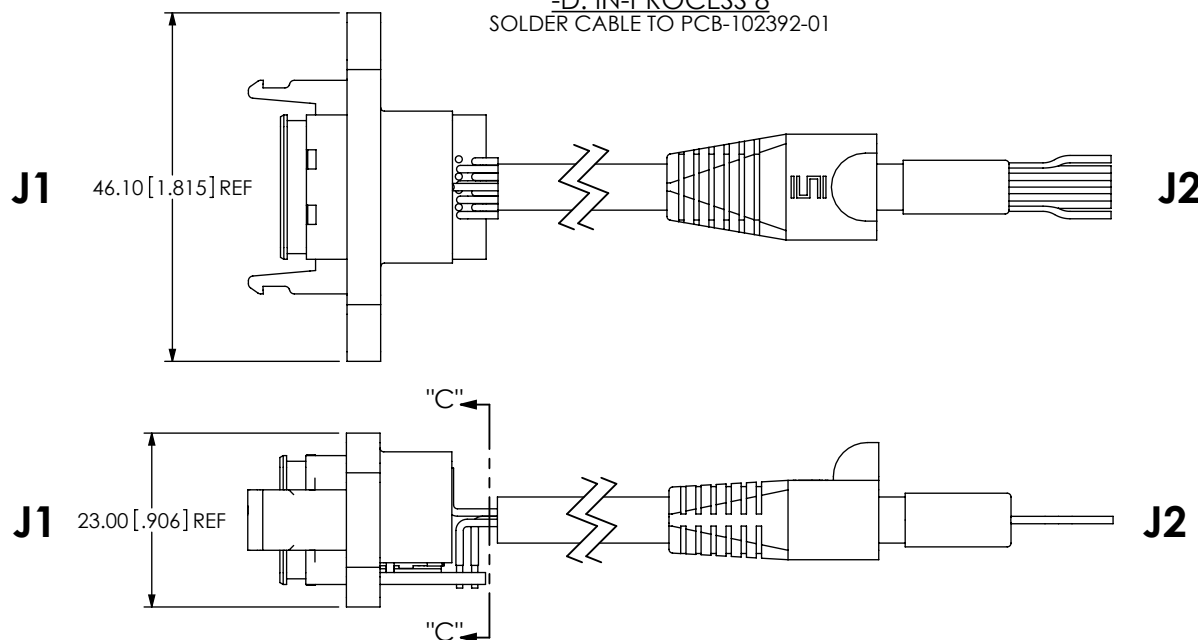


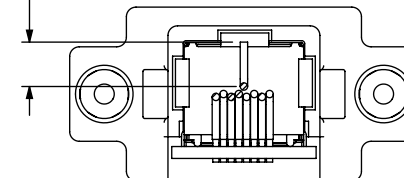
TABLE 2

J1 POS	COLOR	J2 POS
01	WHITE/ORANGE	01
02	ORANGE	02
03	WHITE/GREEN	03
04	BLUE	04
05	WHITE/BLUE	05
06	GREEN	06
07	WHITE/BROWN	07
08	BROWN	08
SHELL	BRAID	SHELL

-D: IN-PROCESS 8  
SOLDER CABLE TO PCB-102392-01

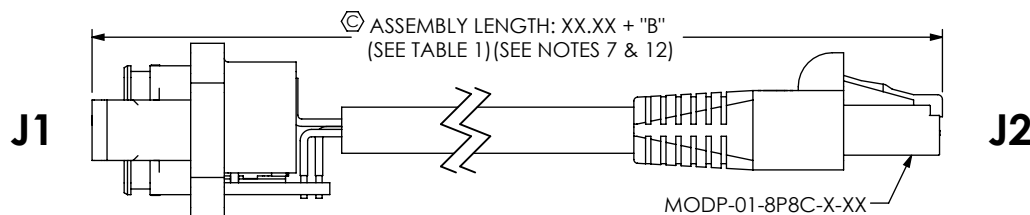


3.59 [.141] MAX  
(SHIELD TO BE SOLDERED IN THIS AREA)



SECTION "C"-"C"

-D: IN-PROCESS 9  
TERMINATE J2 TO MODP-01-8P8C-X-XX



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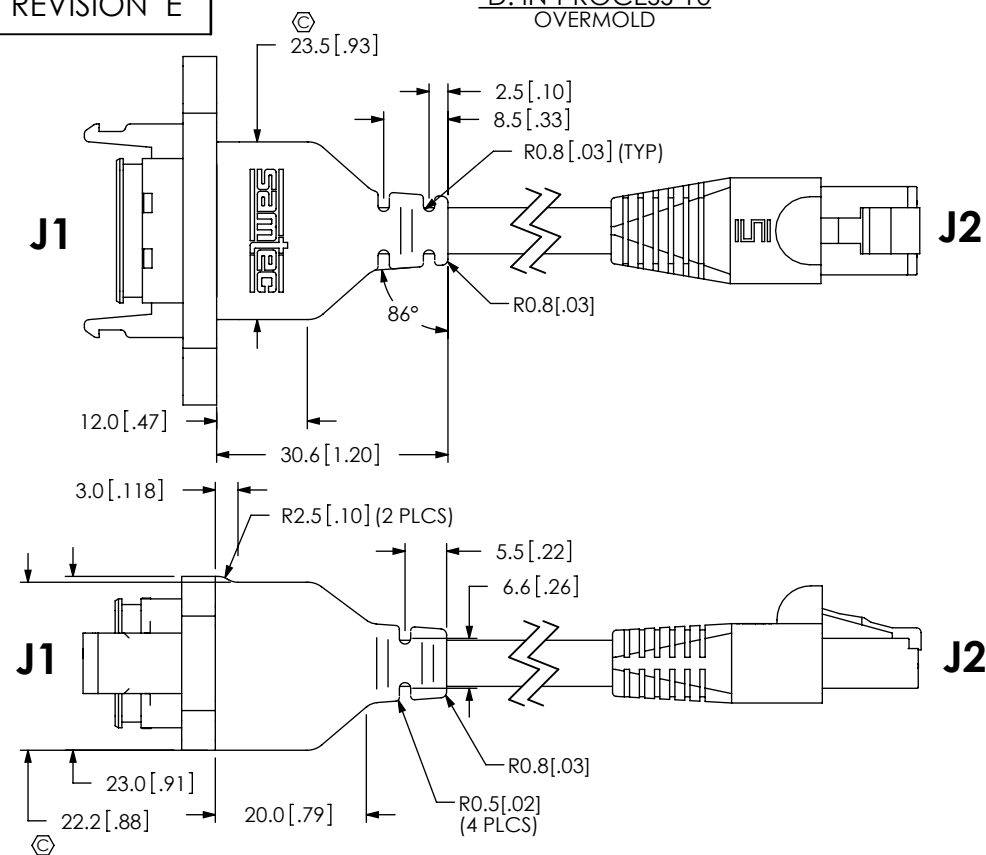
DESCRIPTION:  
SEAL RECTANGULAR RECEPTACLE, ETHERNET

DWG. NO.  
RPCE-XX-X-XX.XX-XX-C5E

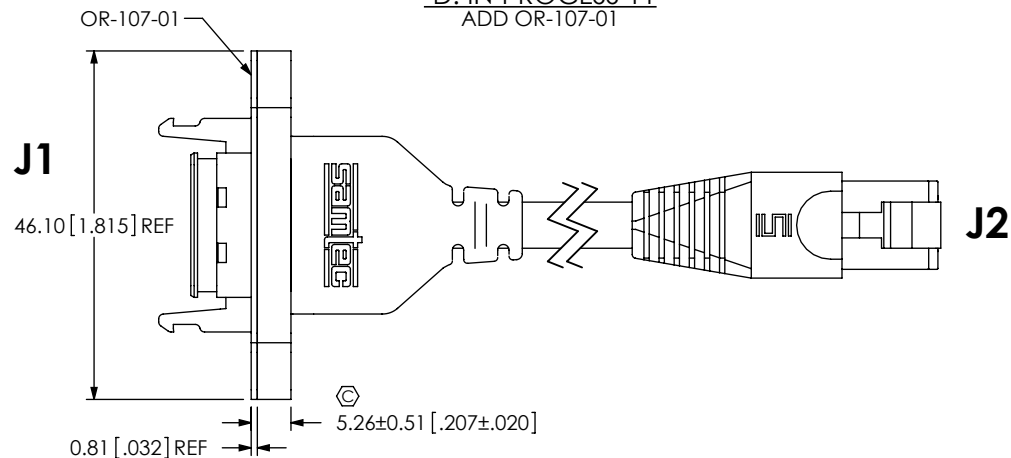
BY: T NEWTON 12/10/2009 SHEET 3 OF 6

REVISION E

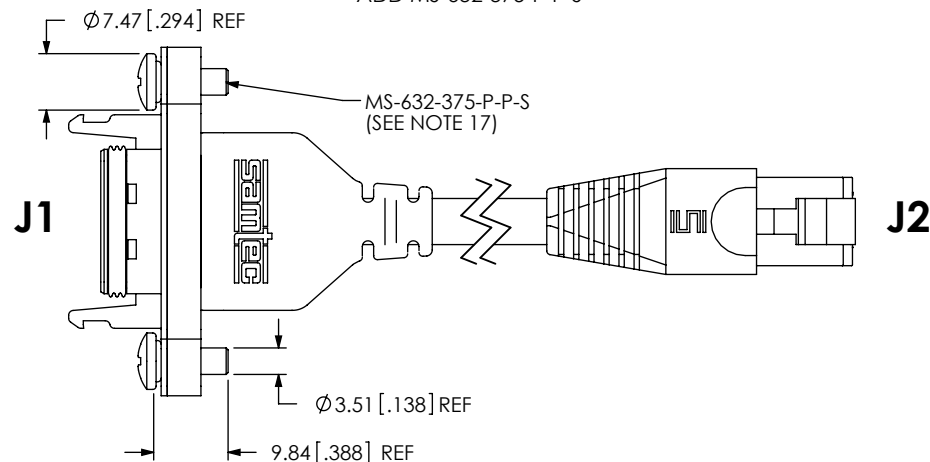
-D: IN-PROCESS 10  
OVERMOLD



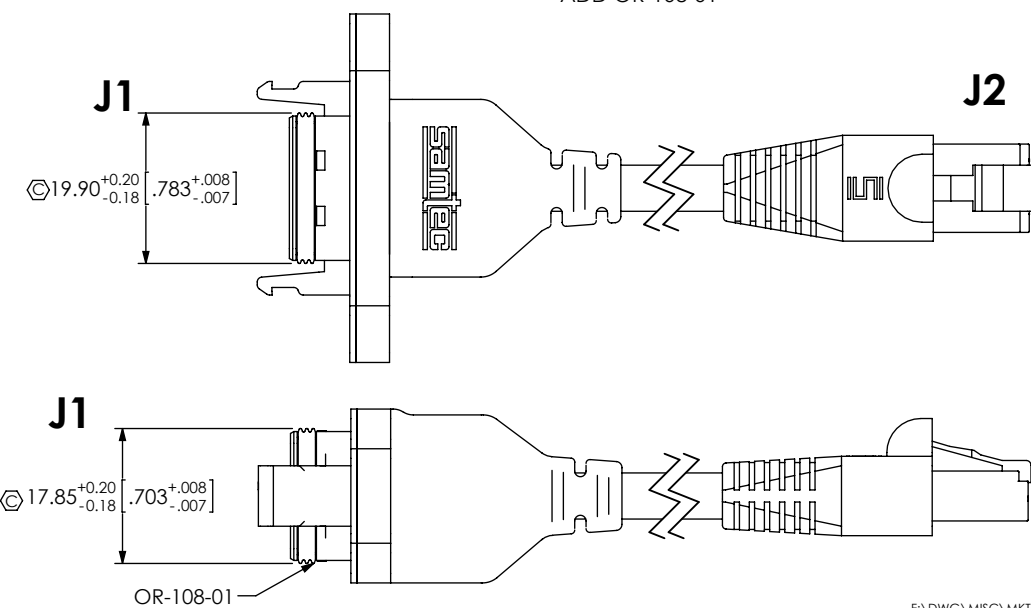
-D: IN-PROCESS 11  
ADD OR-107-01



-D: IN-PROCESS 13  
ADD MS-632-375-P-P-S



-D: IN-PROCESS 12  
ADD OR-108-01



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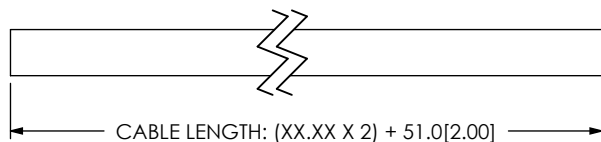
BY: T NEWTON 12/10/2009 SHEET 4 OF 6

F:\DWG\MISC\MKTG\RPCE-XX-X-XX.XX-XX-C5E-MKT.SLDDRW

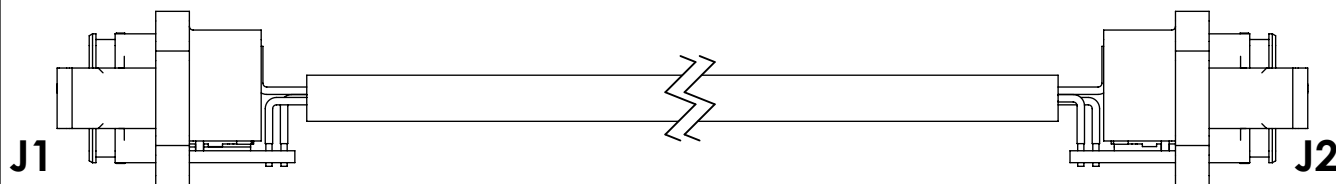
# REVISION E

## -BC: IN-PROCESS 1 CUT CABLE TO LENGTH

(SAME AS -D: IN-PROCESS 1, EXCEPT AS SHOWN)



## -BC: IN-PROCESS 8 TERMINATE CABLE TO PCB-102392-01, (SAME AS -D: IN-PROCESS 8, EXCEPT AS SHOWN)



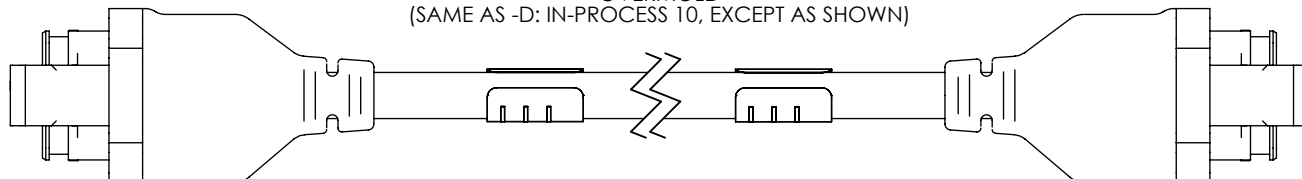
## -BC: IN-PROCESS 2 STRIP OUTER JACKET

(SAME AS -D: IN-PROCESS 2, EXCEPT AS SHOWN)



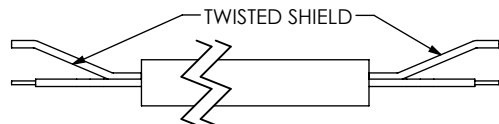
## -BC: IN-PROCESS 9 OVERMOLD

(SAME AS -D: IN-PROCESS 10, EXCEPT AS SHOWN)



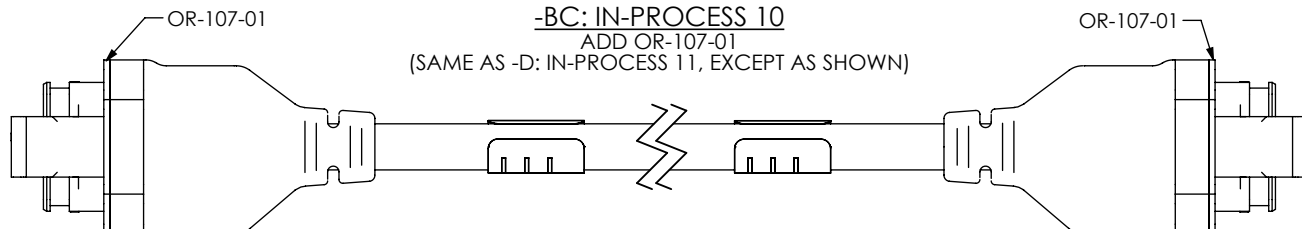
## -BC: IN-PROCESS 3

STRIP INDIVIDUAL WIRE AND TIN DIP  
(SAME AS -D: IN-PROCESS 3, EXCEPT AS SHOWN)



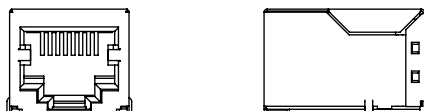
## -BC: IN-PROCESS 10 ADD OR-107-01

(SAME AS -D: IN-PROCESS 11, EXCEPT AS SHOWN)



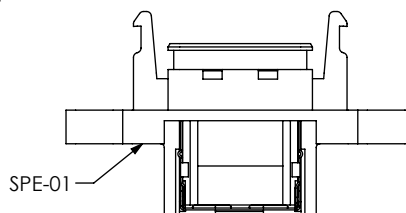
## -BC: IN-PROCESS 4

REMOVE SHIELD TAB FROM MODS-A-8P8C-E-03-S-C5  
(SAME AS -D: IN-PROCESS 4, EXCEPT AS SHOWN)



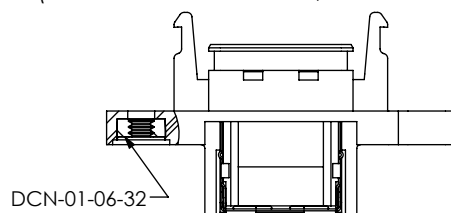
## -BC: IN-PROCESS 5 FILL SPE-01 & HEAT STAKE

(SAME AS -D: IN-PROCESS 5, EXCEPT AS SHOWN)



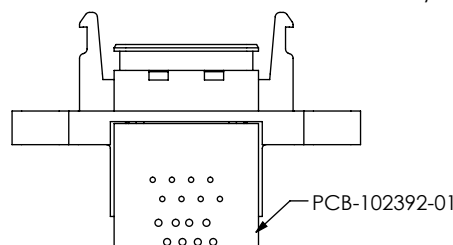
## -BC: IN-PROCESS 6

FILL DCN-01-06-32 & HEAT STAKE  
(SAME AS -D: IN-PROCESS 6, EXCEPT AS SHOWN)



## -BC: IN-PROCESS 7 SOLDER PCB-102392-01

(SAME AS -D: IN-PROCESS 7, EXCEPT AS SHOWN)



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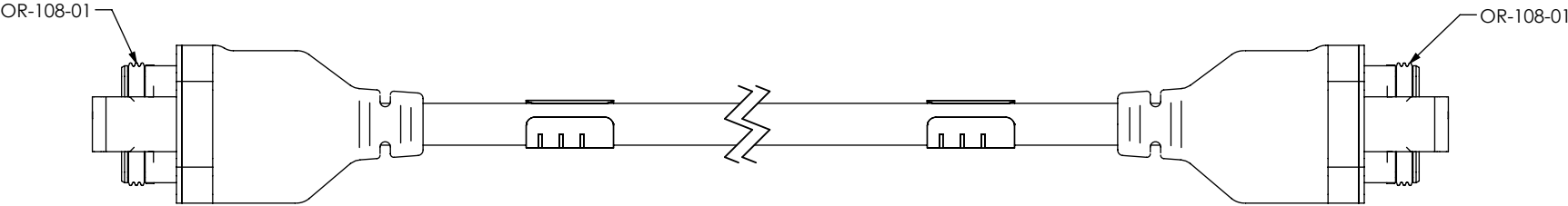
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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
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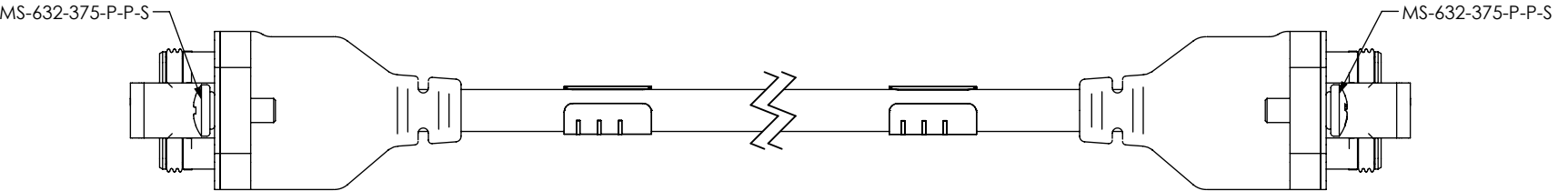
DWG. NO.  
**RPCE-XX-X-XX.XX-XX-C5E**

BY: T NEWTON 12/10/2009 SHEET 5 OF 6

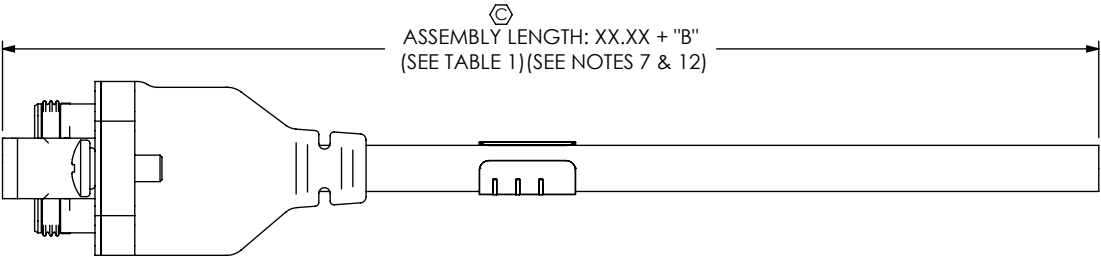
-BC: IN-PROCESS 11  
ADD OR-108-01  
(SAME AS -D: IN-PROCESS 12, EXCEPT AS SHOWN)



-BC: IN-PROCESS 12  
ADD MS-632-375-P-P-S  
(SAME AS -D: IN-PROCESS 13, EXCEPT AS SHOWN)



-BC: IN-PROCESS 13  
CUT CABLE IN HALF AND TRIM TO LENGTH



F:\DWG\MISC\MKTG\RPCE-XX-X-XX.XX-XX-C5E-MKT.SLDDRW

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BY: T NEWTON 12/10/2009 SHEET 6 OF 6