

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

**DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]**

SCRES-X-XX.XX-XX-C5E

**PLATING SPECIFICATION**

-G: .000050" GOLD ON CONTACT AREAS, NICKEL ON SHELLS

**END OPTION**

-D: DOUBLE ENDED (ONE END SEALED) (SEE FIG.1, SHT. 1)  
-BC: BLUNT CUT (SEE FIG.2, SHT. 2)

**LENGTH**

-XX.XX (IN METERS) (0.17M MIN - 50.00M MAX)

DO NOT SCALE FROM THIS PRINT

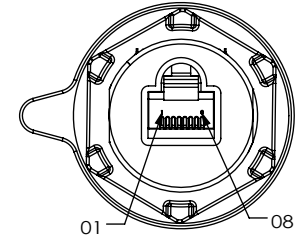
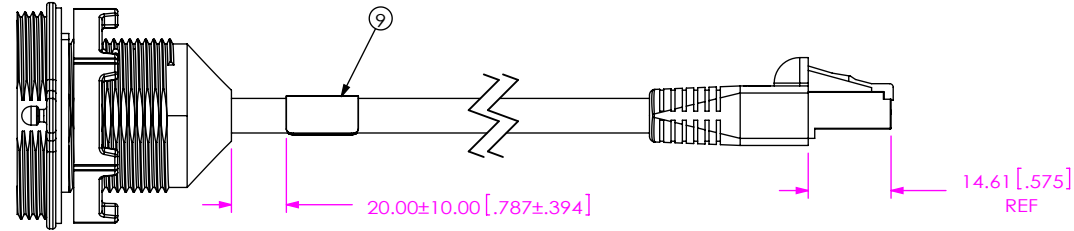
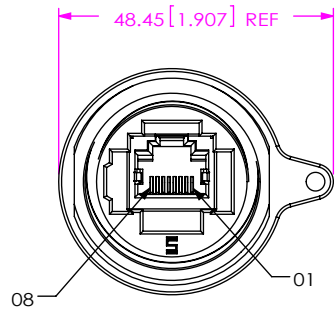
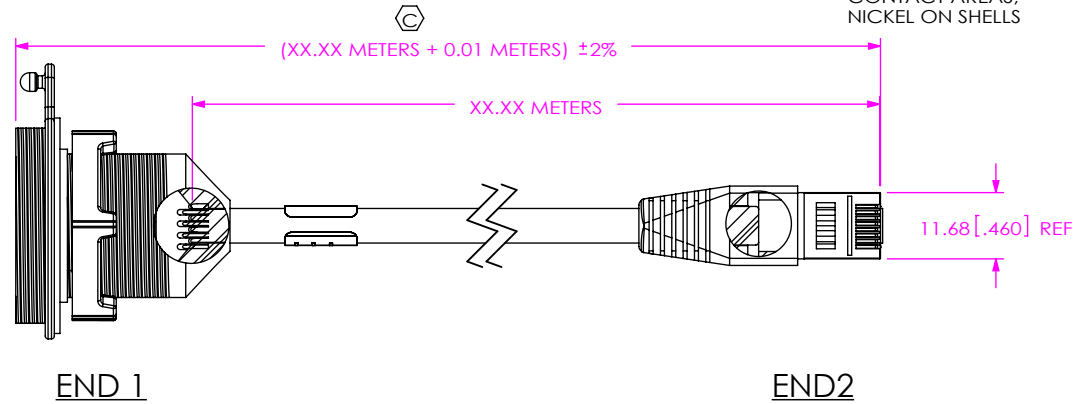


FIG 1  
SCRES-G-XX.XX-D-C5E

SCRES-G-XX-XX-D-C5E BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	ECA-02-02	XX.X	CABLE
2	MODS-A-8P8C-E-01-S-C5	1	CONNECTOR
3	PCB-101555-01	1	PCB
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-80G14-BK	1	OVERMOLD
6	OR-17-01	1	O-RING
7	SPG-17-01	1	GASKET
8	SPN-17-01	1	NUT
9	LABEL-ET	1	LABEL
10	ETHB-02	1	ETHERNET BOOT
11	MODP-01-8P8C-S-01	1	CONNECTOR

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. ASSEMBLY TO BE 100% TESTED TO CAT5e USING FLUKE DTX-1800 CABLE ANALYZER, AFTER FINAL ELECTRICAL TEST, LABELED. FOR BLUNT CUT OPTION, A LABEL WILL BE BE APPLIED TO BOTH ENDS.
3. NOTE DELETED.
4. PANEL THICKNESS: 0.8[.03] - 5.2[.20].
5. PANEL NUT TORQUE SPECIFICATION: 12 IN-LB.
6. PART MUST SCREW INTO SAMTEC PART # SCN-17-01.
7. PART MUST SCREW INTO SAMTEC PART # SPN-17-01
8. FLAT REQUIRED AT PARTING LINE OF CAMS TO AVOID DRAGGING THREADS.
9. NOTE DELETED.
10. ALL IDENTIFICATION MARKS MUST NOT STAND GREATER THAN 0.051 [.002] OFF THE SURFACE OF THE PART.
11. MOLD TO BE INSERTED TO ACCEPT DIFFERENT CABLE DIAMETERS.
12. ALL EJECTOR PIN AND GATE LOCATIONS MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
13. ANY ADDITIONAL VOIDING AND/OR MODIFICATIONS TO VOIDING MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
14. SAMTEC LOGO SHALL APPEAR ON SURFACE SHOWN, APPROXIMATELY 1.88 X 3.00.
15. COMPONENTS OF ASSEMBLY TO BE INSPECTED USING COMPONENT PRINTS.
16. ASSEMBLY TO BE PACKAGED IN BULK.
17. NOTE DELETED.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.35[.014] 2°  
X.XX: ±0.25[.010]  
X.XXX: ±0.15[.0060]

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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

**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 1:1.53846  
CABLE: PVC, COPPER  
CONNECTOR: PBT, COPPER ALLOY  
O-RING: SILICONE  
PCB: FR4, COPPER  
OVERMOLD, NUT: NYLON  
PREMOLD: TPE  
F:\DWG\MISC\MKTG\SCRES-X-XX.XX-XX-C5E-MKT.SLDDRW

DESCRIPTION:  
SEALED CIRCULAR RECEPTACLE, ETHERNET  
DWG. NO.  
**SCRES-X-XX.XX-XX-C5E**  
BY: CHADP 3/17/2009 SHEET 1 OF 6

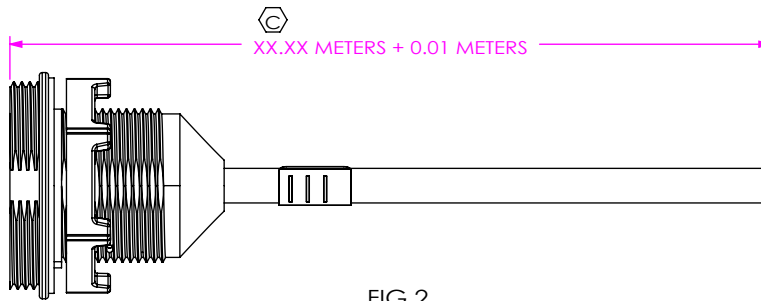
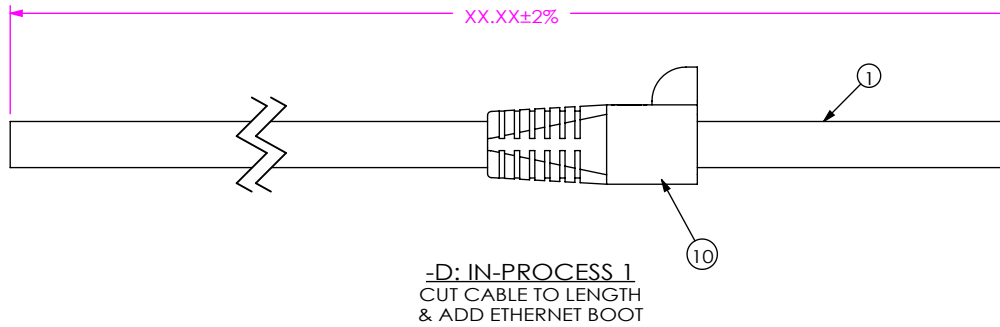
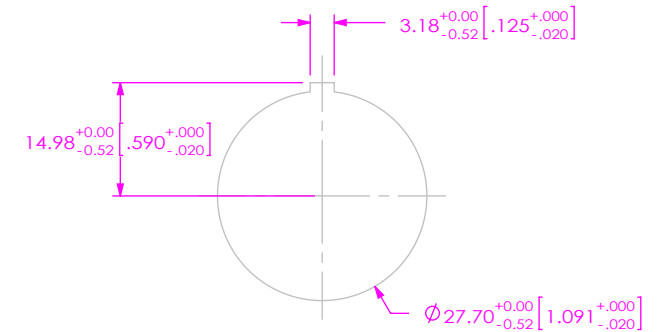


FIG 2  
SCRES-G-XX.XX-BC-C5E  
(SAME AS FIG 1 UNLESS OTHERWISE STATED)

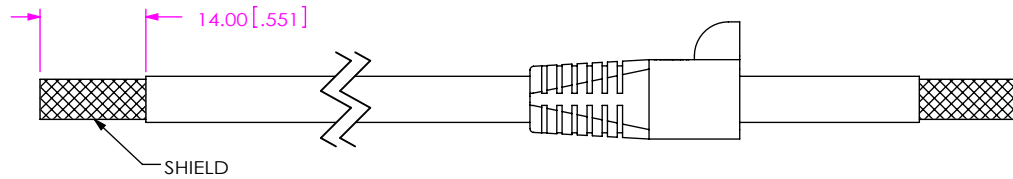
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8	SPN-17-01	1	NUT
9	LABEL-ET	1	LABEL



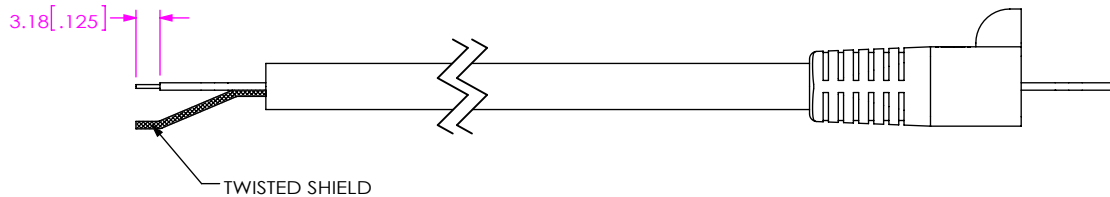
-D: IN-PROCESS 1  
CUT CABLE TO LENGTH  
& ADD ETHERNET BOOT



RECOMMENDED PANEL HOLE  
(SEE NOTE 4)



-D: IN-PROCESS 2  
STRIP OUTER JACKET TO DIMENSION SHOWN



-D: IN-PROCESS 3  
END 1: TWIST SHIELD TO FORM SINGLE CONDUCTOR.  
STRIP INDIVIDUAL WIRES TO DIMENSION SHOWN & TIN DIP  
END 2: FOLD BACK SHIELD

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DWG. NO.

SCRES-X-XX.XX-XX-C5E

BY: CHADP 3/17/2009 SHEET 2 OF 6

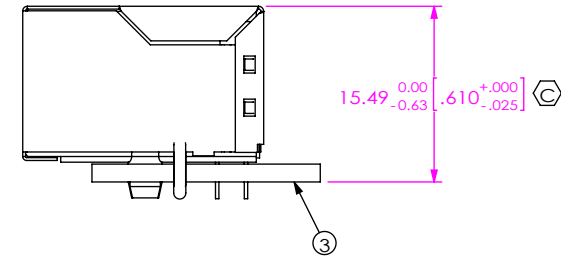
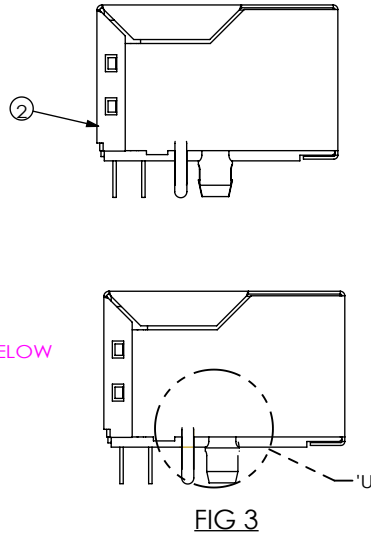
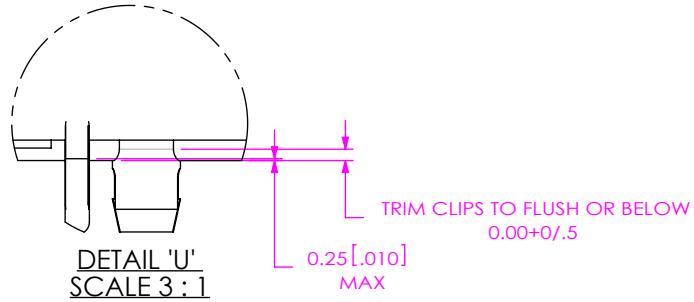
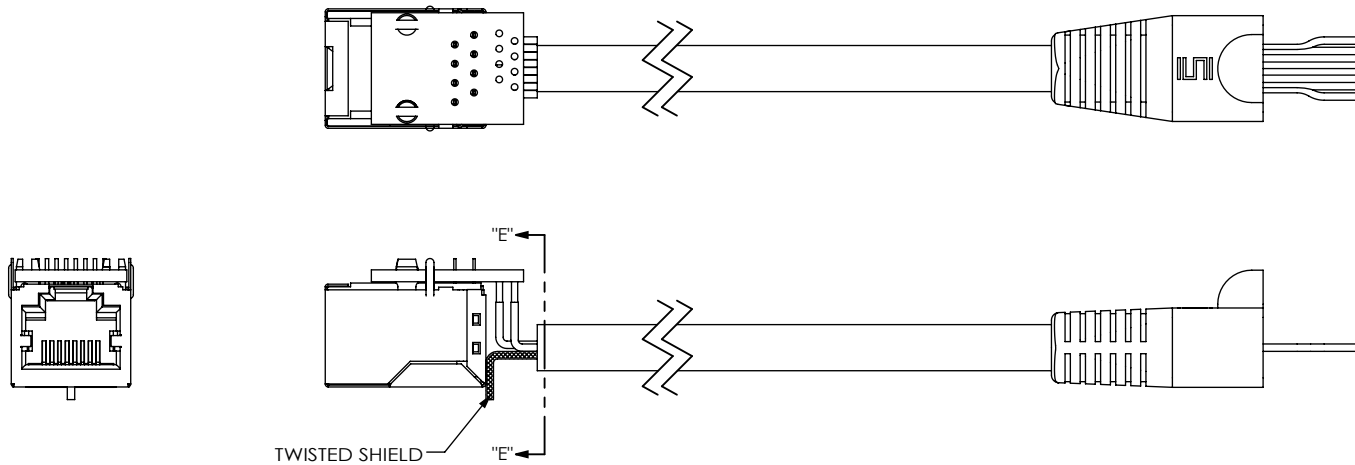


FIG4  
CONNECTOR SOLDERED TO PCB

-D: IN-PROCESS 4  
SHEAR SHIELD TABS AND ALIGNMENT PINS  
FLUSH WITH BOTTOM OF CONNECTOR  
ADD SOLDER TO PCB

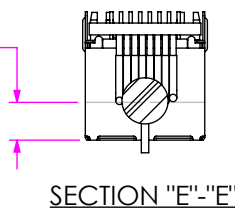


-D: IN-PROCESS 5  
TERMINATE CABLE TO PCB, BRAID TO CONNECTOR SHIELD

**TABLE 2 - PIN-OUT**

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

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



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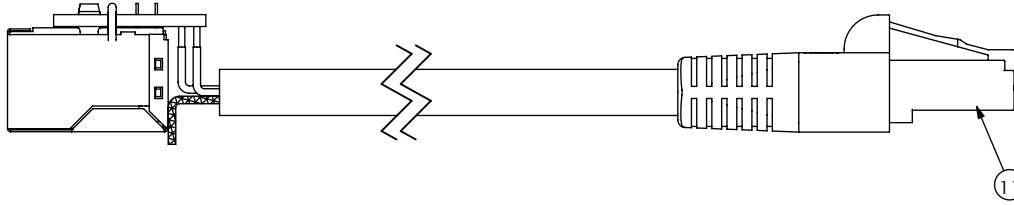
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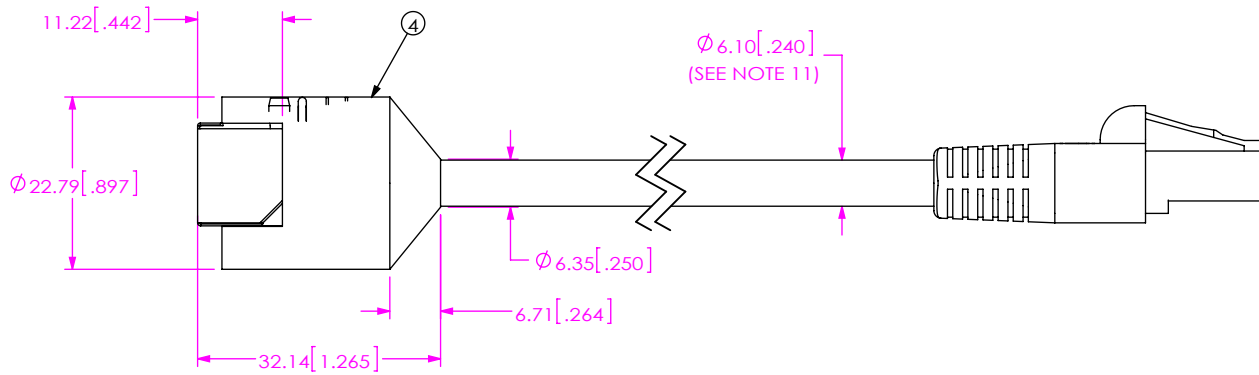
SCRES-X-XX.XX-XX-C5E

BY: CHADP 3/17/2009 SHEET 3 OF 6

TABLE 3 - PIN-OUT		
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 6  
TERMINATE  
(SEE NOTE 2)



-D: IN-PROCESS 7  
ADD PREMOLD

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

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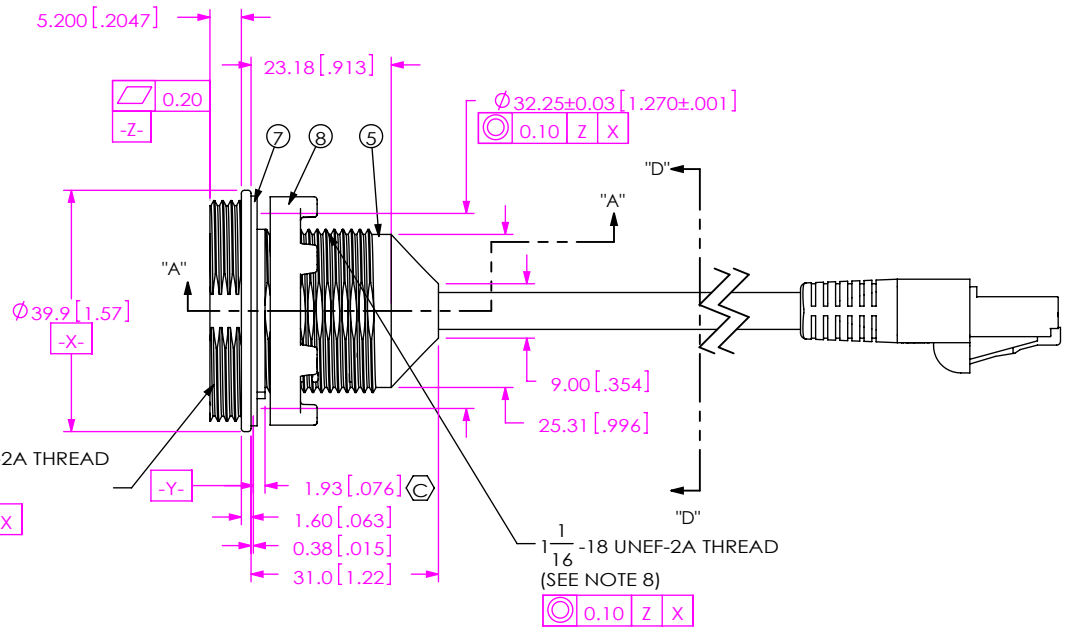
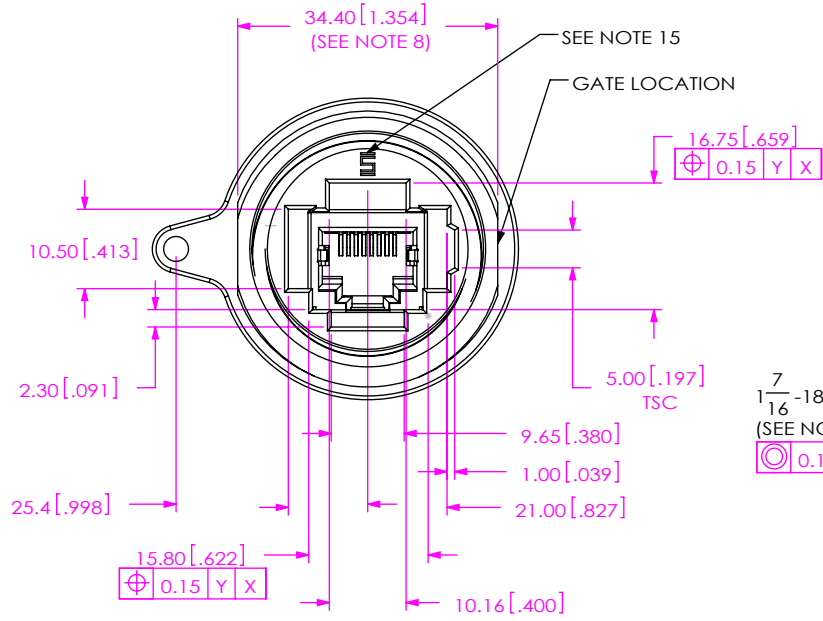


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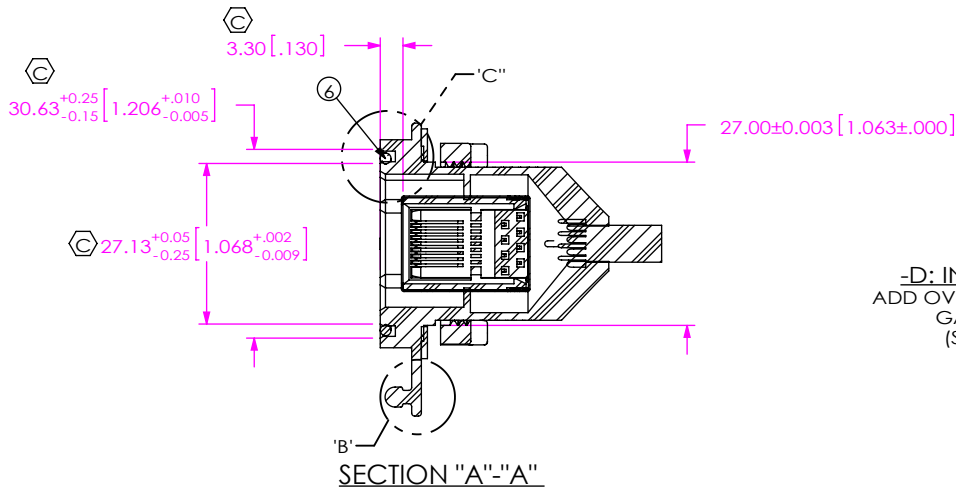
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DWG. NO.

**SCRES-X-XX-XX-XX-C5E**

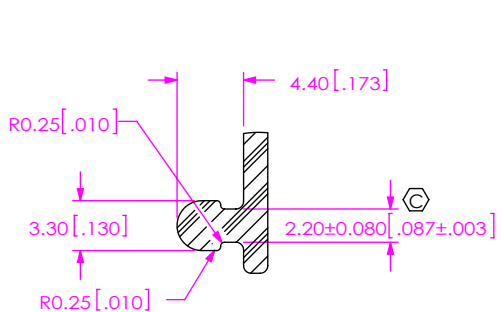
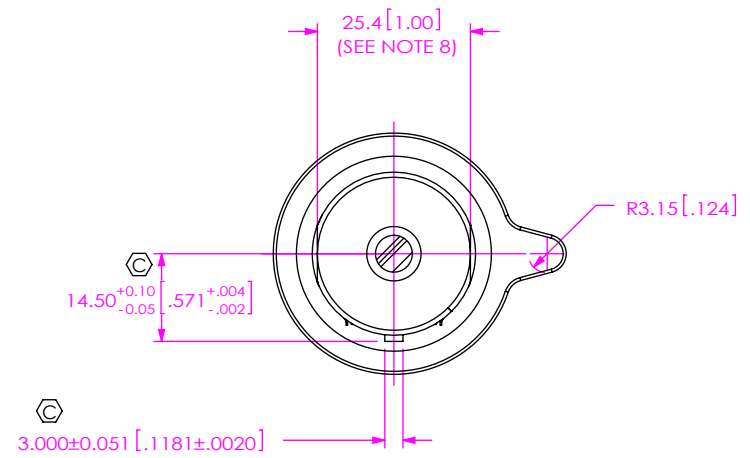
BY: CHADP 3/17/2009 SHEET 4 OF 6



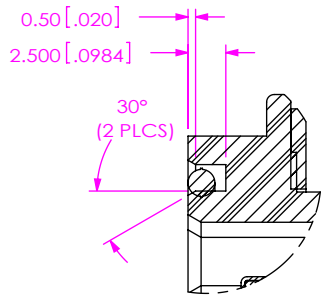
$\frac{7}{16}$  -18 UNEF-2A THREAD (SEE NOTE 7)  $\text{Ø} 0.10 \text{ Y X}$



-D: IN-PROCESS 8  
ADD OVER MOLD, O-RING,  
GASKET & NUT  
(SEE NOTE 2)



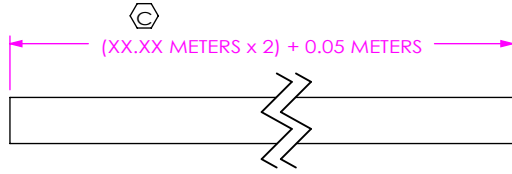
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SCALE 2 : 1



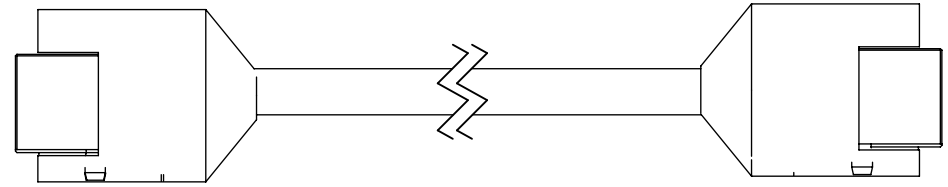
DETAIL "C"  
SCALE 2 : 1

OR-17-01, SPG-17-01, & SPN-17-01  
REMOVED FOR CLARITY

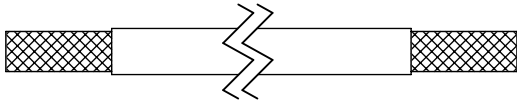
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BY: CHADP	3/17/2009	SHEET 5 OF 6



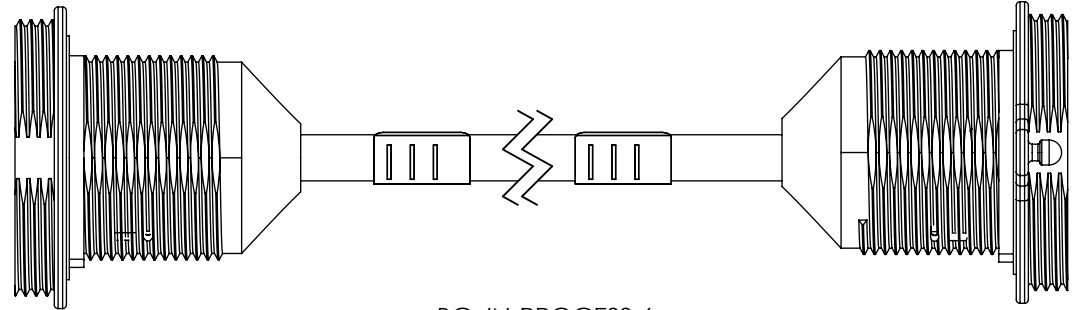
**-BC: IN-PROCESS 1**  
CUT CABLES TO LENGTH



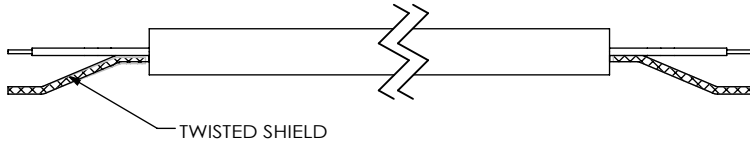
**-BC: IN-PROCESS 5**  
(SAME AS -D IN-PROCESS 7 UNLESS OTHERWISE STATED)



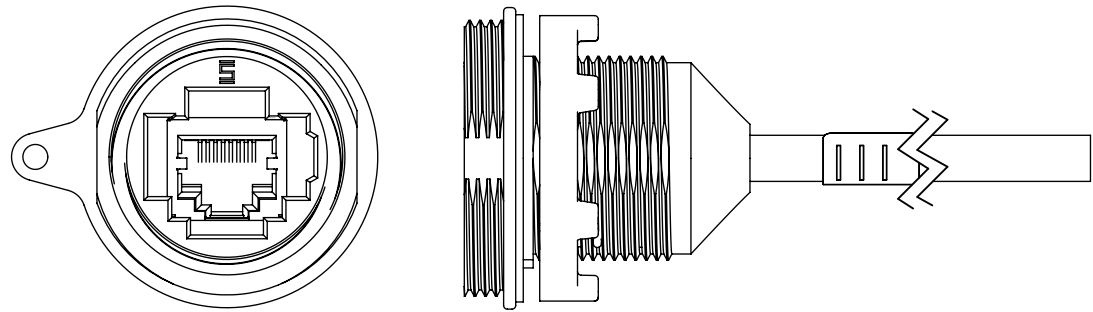
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(SAME AS -D UNLESS OTHERWISE STATED)



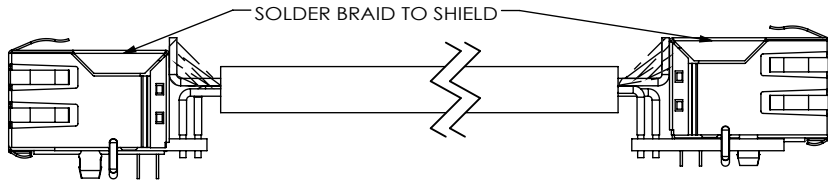
**-BC: IN-PROCESS 6**  
(SAME AS -D IN-PROCESS 8 UNLESS OTHERWISE STATED)  
(SEE NOTE 2)



**-BC: IN-PROCESS 3**  
(SAME AS -D UNLESS OTHERWISE STATED)



**-BC: IN-PROCESS 7**  
CUT IN HALF & TRIM TO LENGTH  
ADD O-RING, GASKET & NUT



**-BC: IN-PROCESS 4**  
(SAME AS -D UNLESS OTHERWISE STATED)

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BY: CHADP 3/17/2009 SHEET 6 OF 6