



THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]

SCPE-X-XX.XX-XX-X-XX

DO NOT SCALE FROM THIS PRINT

SCPE-G-XX-XX-D BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	ECA-02-02	XX.XX	CABLE
2	MODP-01-8P8C-X-XX	2	CONNECTOR
3	SCN-17-01	2	CABLE NUT
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL ET

PLATING SPECIFICATION

-G: 50µ" GOLD ON CONTACT AREAS, NICKEL ON SHELLS

LENGTH

-XX.XX (IN METERS)
(FOR LENGTHS 05.00 METERS AND GREATER, -O OPTION IS REQUIRED)

POLARIZATION OPTION

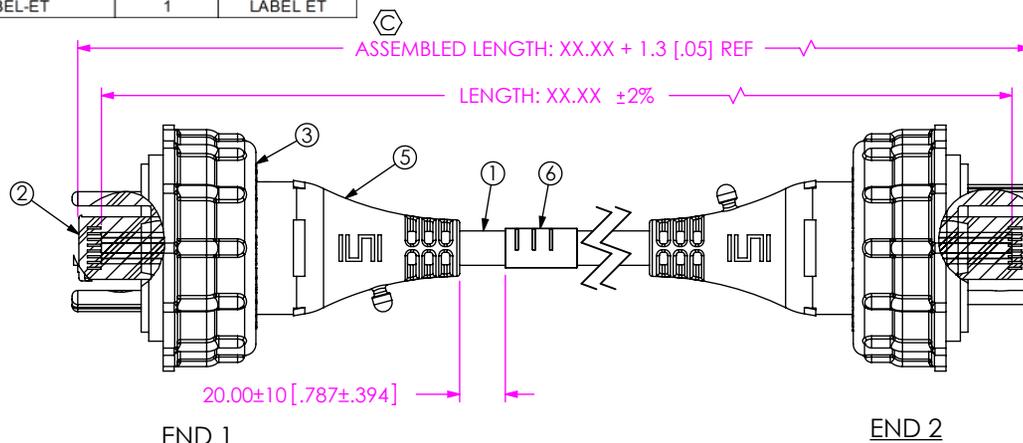
-NP: NO POLARIZATION (ONLY MATES WITH SCRES-X-XX.XX-XX-C5E) (SEE FIGS 4 & 5, SHT 2)

OUTDOOR OPTION

-O: OUTDOOR RATED

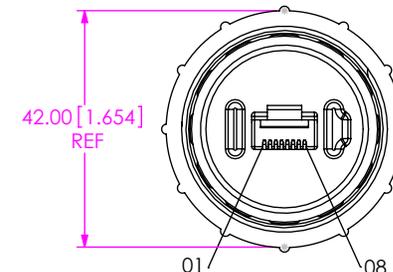
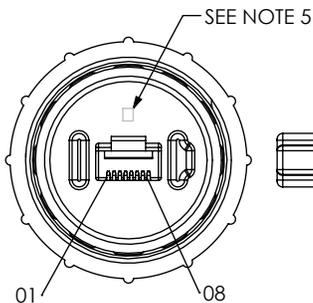
END OPTION

- D: DOUBLE ENDED (BOTH ENDS SEALED) (SEE FIG 1, SHT 1)
- S: SINGLE ENDED (ONE END SEALED) (SEE FIG 2, SHT 2)
- BC: BLUNT CUT (ONE END SEALED) (SEE FIG 3, SHT 3)



NOTE:

-02.00, -03.00, AND -05.00 ARE CATALOG STANDARD LENGTHS. FOR OTHER LENGTHS (0.25M[9.84] MIN - 5.00M[196.85] MAX) CONTACT SAMTEC.



NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. NOTE DELETED.
3. SAMTEC LOGO TO APPEAR ON SURFACE AS SHOWN, APPROXIMATELY 4.50[.177] x 7.50[.295], RAISED 0.25[.010].
4. NOTE DELETED.
5. ALL MULTIPLE CAVITY MOLDS SHALL IDENTIFY EACH CAVITY WITH A NUMBER DESIGNATION LOCATED WHERE SHOWN.
6. ALL IDENTIFICATION MARKS SHALL NOT STAND GREATER THAN 0.05[.002] OFF THE SURFACE OF THE PART.
7. MOLD TO BE INSERTED TO ACCEPT DIFFERENT CABLE DIAMETERS.
8. ASSEMBLY TO BE 100% ELECTRICALLY TESTED TO CAT5E USING FLUKE DTX-1800 CABLE ANALYZER. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET.
9. ALL EJECTOR PIN AND GATE LOCATIONS MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
10. ANY ADDITIONAL VOIDING AND/OR MODIFICATIONS TO VOIDING MUST BE APPROVED BY SAMTEC PRODUCT ENGINEERING.
11. ALL DRAFT MUST BE WITHIN THE SPECIFIED TOLERANCES.
12. ALL INSIDE/OUTSIDE RADII 0.13 MAX UNLESS OTHERWISE STATED.
13. NOTE DELETED.
14. NOTE DELETED.
15. ASSEMBLY WITH LENGTH GREATER THAN 1 METER TO BE BULK PACKAGED WITH ASBBLT4X5.5. ASSEMBLY WITH LENGTH LESS THAN 1 METER TO BE COILED AND PLACED IN ONE ASBBLT14X9.5.
16. CABLE NUT TORQUE SPEC: 12 IN-LBS.
17. NOTE DELETED.
18. MAXIMUM REGRIND ON OVERMOLD: 10%.

FIG 1
SCPE-G-XX.XX-D SHOWN

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES ARE:
DECIMALS ANGLES
X.X: ±0.35 [.014]
X.XX: ±0.25 [.010]
X.XXX: ±0.15 [.006]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1.33333
CABLE: PVC, COPPER
CONNECTOR: POLYCARBONATE, PHOS BRONZE
CABLE NUT, OVERMOLD: PA66
PREMOLD: PTC
LABEL ET: POLYESTER
ETHERNET BOOT: PVC



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

DESCRIPTION:
SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. SCPE-X-XX.XX-XX-X-XX

BY: CHAD F 12/11/2004 SHEET 1 OF 11

SCPE-G-XX.XX-S BOM			
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	ECA-02-02	XX.XX	CABLE
2	MODP-01-8P8C-X-XX	2	CONNECTOR
3	SCN-17-01	1	CABLE NUT
4	MD-PTC-RF-640-BK	1	PREMOLD
5	MD-NYL-ZY-70G13-BK	1	OVERMOLD
6	LABEL-ET	1	LABEL ET
7	ETHB-02	1	ETHERNET BOOT

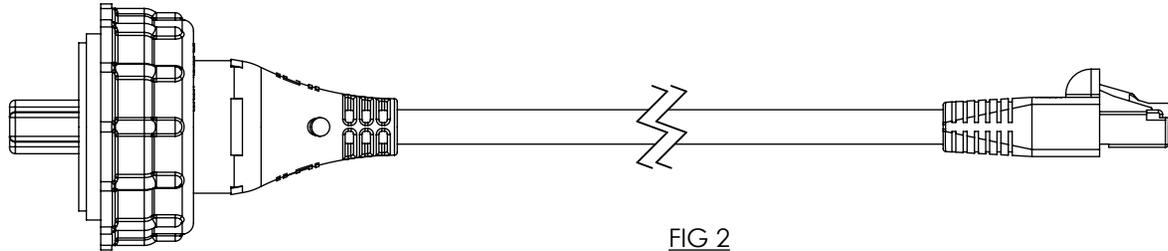
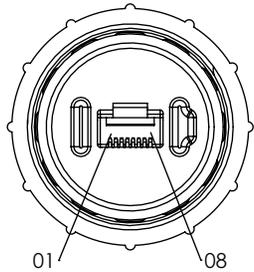
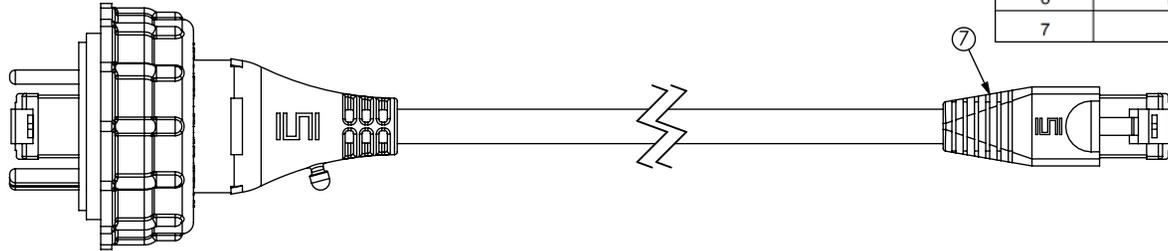


FIG 2
SCPE-G-XX.XX-S SHOWN
(SEE SHEET 7-8 FOR IN-PROCESS VIEWS)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

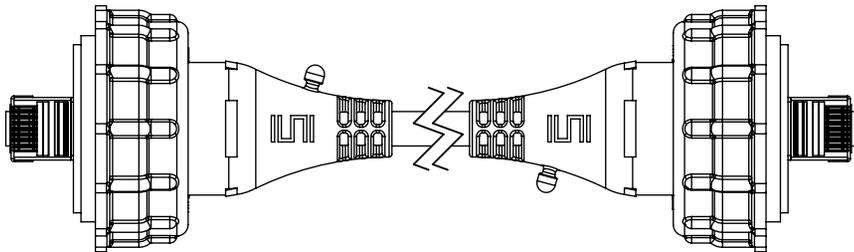


FIG 4
SCPE-G-XX.XX-D-NP SHOWN
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

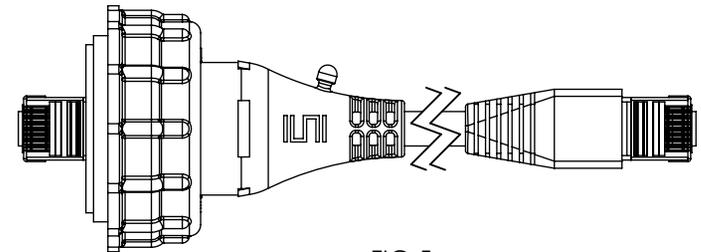


FIG 5
SCPE-G-XX.XX-S-NP SHOWN
(SAME AS FIG 2, UNLESS OTHERWISE STATED)

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DO NOT SCALE DRAWING

SHEET SCALE: 0.75:1

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520 PARK EAST BLVD. NEW ALBANY, IN 47150
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DESCRIPTION:
SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 2 OF 11

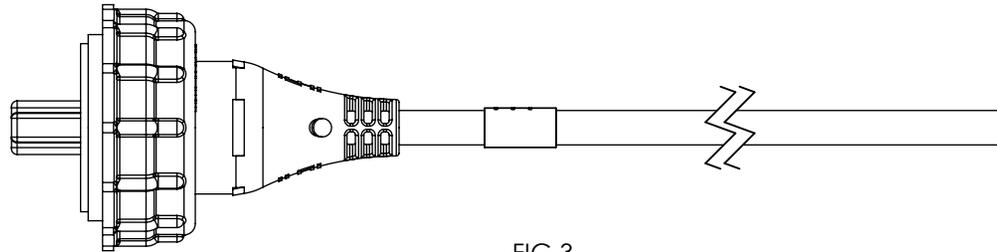
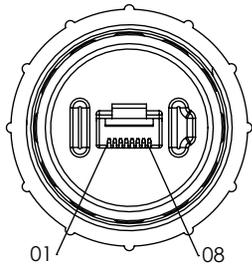
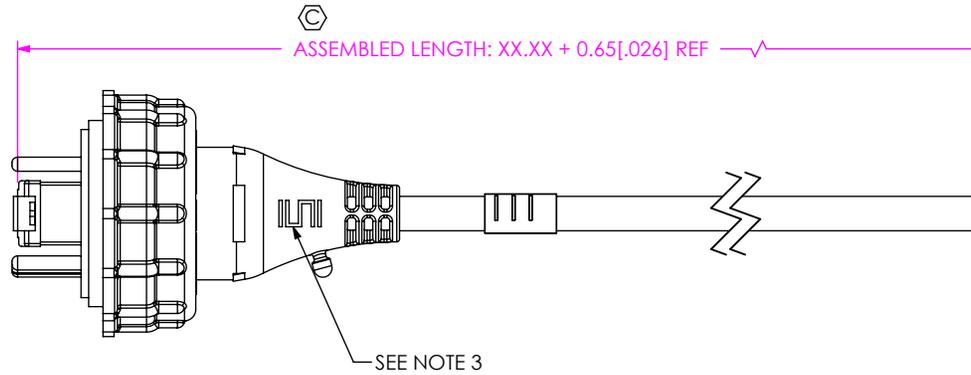


FIG 3
 SCPE-G-XX.XX-BC SHOWN
 (SEE SHEET 9-11 FOR IN-PROCESS VIEWS)
 (SAME AS FIG 1, UNLESS OTHERWISE STATED)

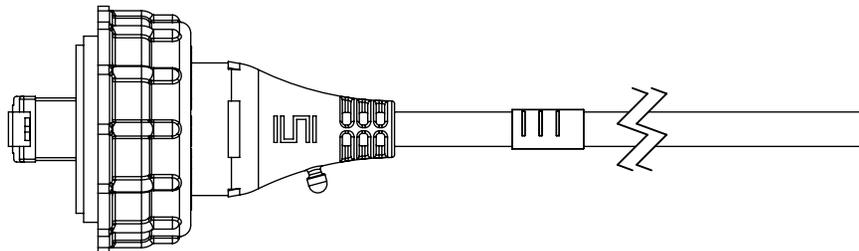


FIG 6
 SCPE-G-XX.XX-BC-NP
 (SAME AS FIG 3, UNLESS OTHERWISE STATED)

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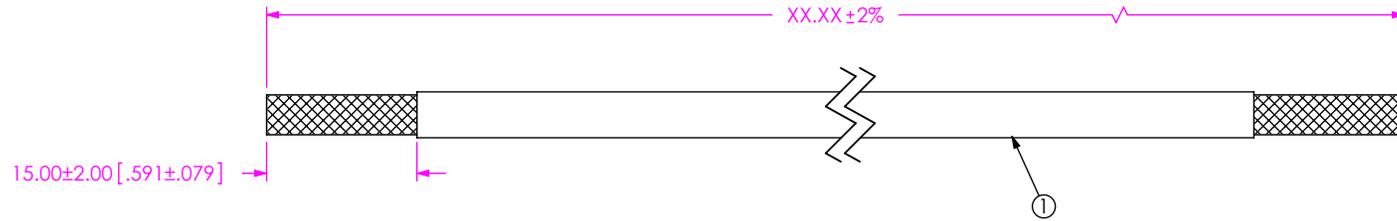
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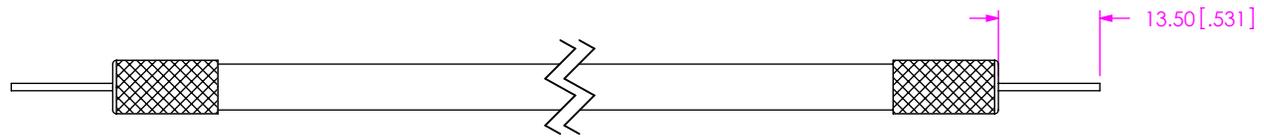
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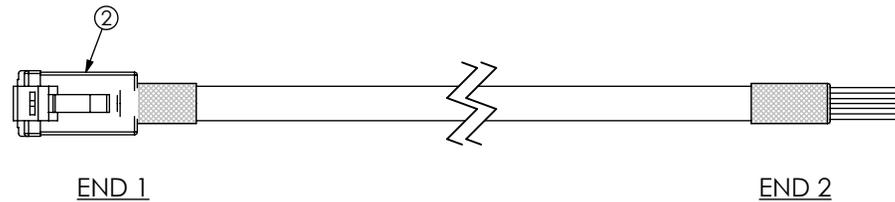
BY: CHAD F 12/11/2004 SHEET 3 OF 11



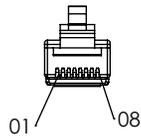
-D IN-PROCESS 1
(CUT CABLE TO LENGTH AND STRIP OUTER JACKET)



-D IN-PROCESS 2
(FOLD SHIELD BACK OVER JACKET)



-D IN-PROCESS 3
TERMINATE FIRST END TO CONNECTOR
(SEE TABLE 3, SHT 5)



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SHEET SCALE: 1:5

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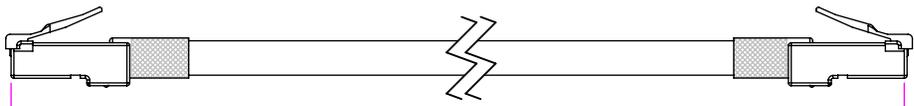
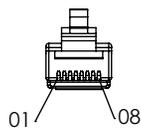
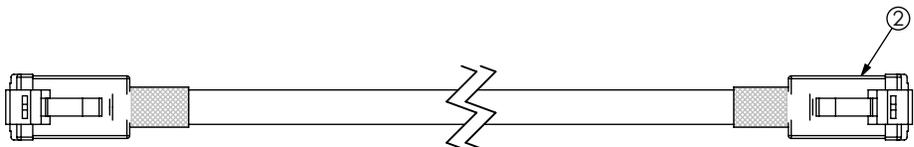
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DESCRIPTION:
SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 4 OF 11

TABLE 3 - PIN-OUT			
END 1 POS	COLOR	END 2 POS	
01	WHITE/ORANGE	01	TWISTING
02	ORANGE	02	
03	WHITE/GREEN	03	TWISTING
04	BLUE	04	
05	WHITE/BLUE	05	TWISTING
06	GREEN	06	
07	WHITE/BROWN	07	TWISTING
08	BROWN	08	
SHELL	BRAID	SHELL	



ASSEMBLED LENGTH: XX.XX + 1.3[.05] REF

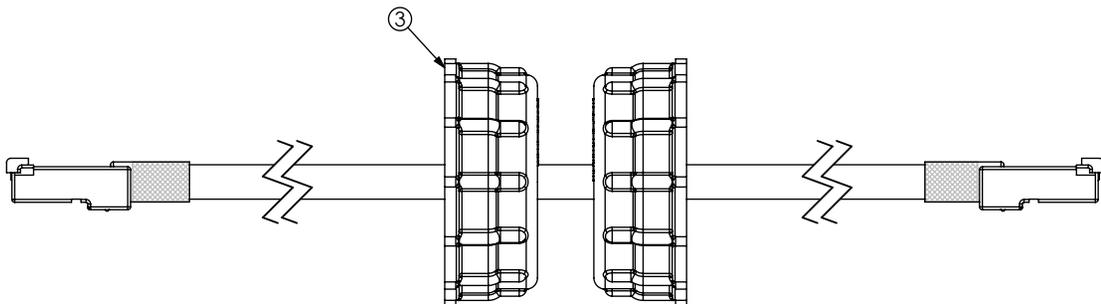


-D IN-PROCESS 4
TERMINATE SECOND END TO CONNECTOR
(SEE NOTE 8)

BREAK LATCH ARM FREE (2 PLCS)



-D IN-PROCESS 5
REMOVE LATCH ARMS



-D IN-PROCESS 6
ADD CABLE NUT

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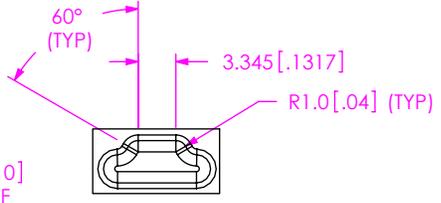
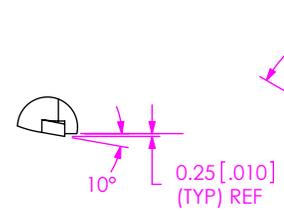
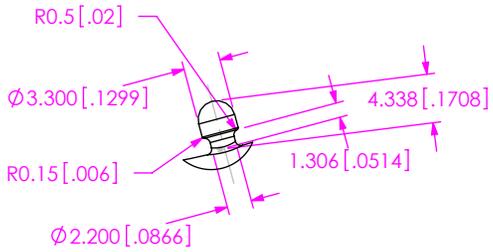
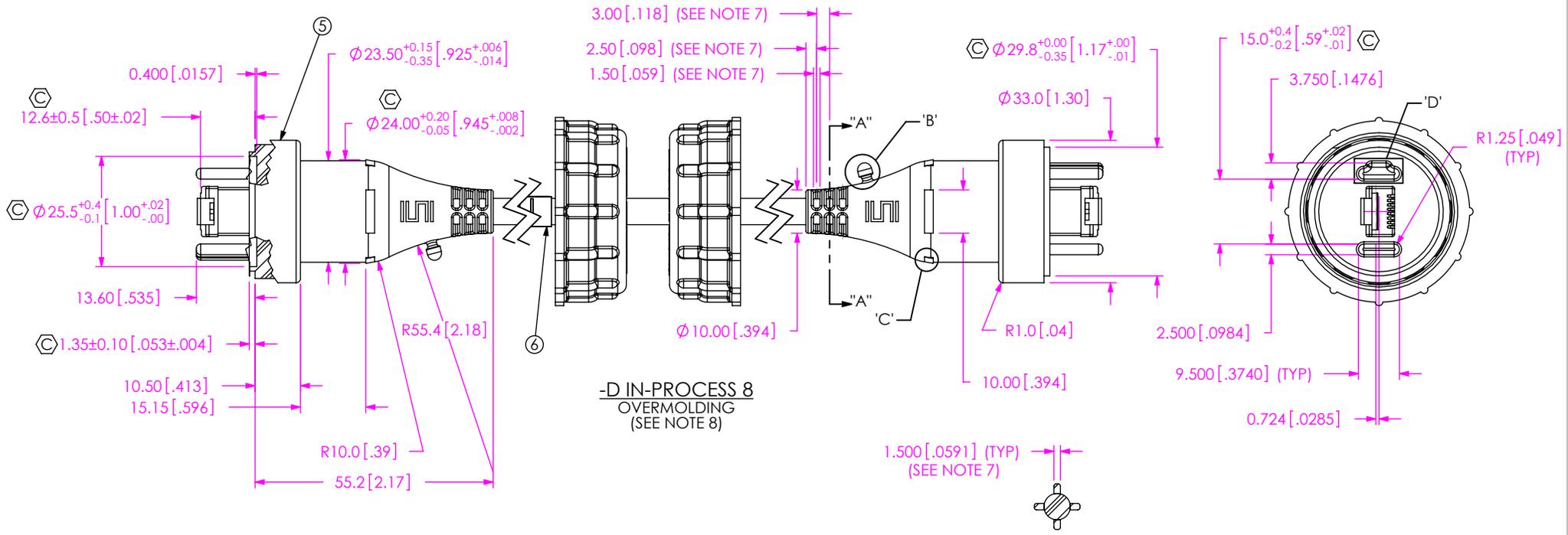
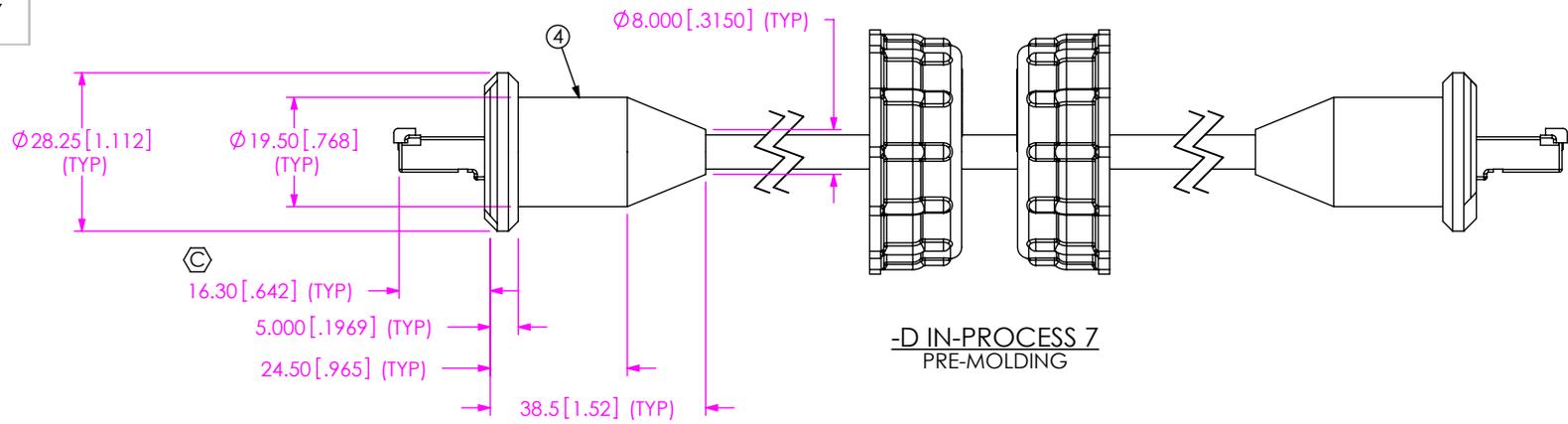


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DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 5 OF 11



SECTION "A"- "A"

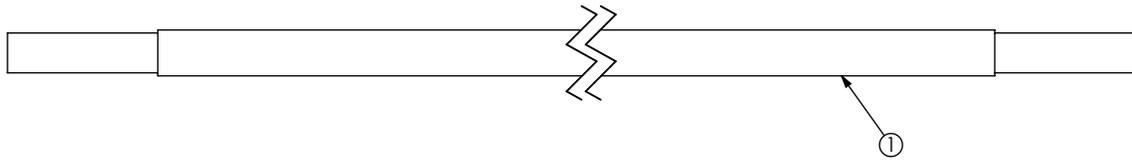
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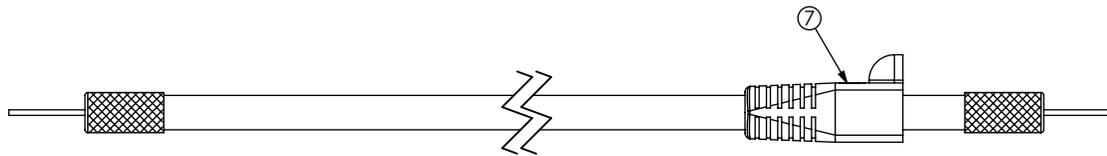


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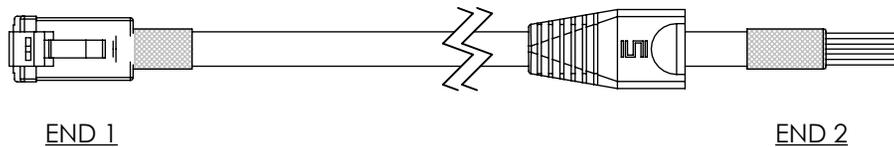
DESCRIPTION:
 SEALED CIRCULAR CABLE PLUG, ETHERNET
 DWG. NO. SCPE-X-XX.XX-XX-X-XX



-S IN-PROCESS 1
 (CUT CABLE TO LENGTH AND STRIP OUTER JACKET)
 (SAME AS -D IN-PROCESS 1, UNLESS OTHERWISE STATED)

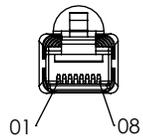


-S IN-PROCESS 2
 (FOLD SHIELD BACK OVER JACKET AND ASSEMBLE BOOT)
 (SAME AS -D IN-PROCESS 2, UNLESS OTHERWISE STATED)



END 1

END 2



-S IN-PROCESS 3
 TERMINATE FIRST END TO CONNECTOR
 (SAME AS -D IN-PROCESS 3, UNLESS OTHERWISE STATED)

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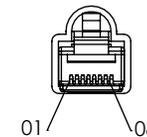
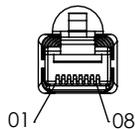


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DESCRIPTION:
 SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 7 OF 11



-S IN-PROCESS 4
 TERMINATE SECOND END TO CONNECTOR
 (SAME AS -D IN-PROCESS 4, UNLESS OTHERWISE STATED)



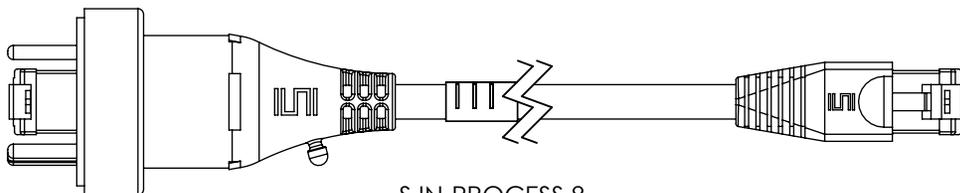
-S IN-PROCESS 5
 ASSEMBLE BOOT TO CONNECTOR



-S IN-PROCESS 6
 REMOVE LATCH ARM
 (SAME AS -D IN-PROCESS 5, UNLESS OTHERWISE STATED)



-S IN-PROCESS 7
 PREMOLDING
 (SAME AS -D IN-PROCESS 7, UNLESS OTHERWISE STATED)



-S IN-PROCESS 8
 OVERMOLDING
 (SAME AS -D IN-PROCESS 8, UNLESS OTHERWISE STATED)
 (SEE NOTE 8)

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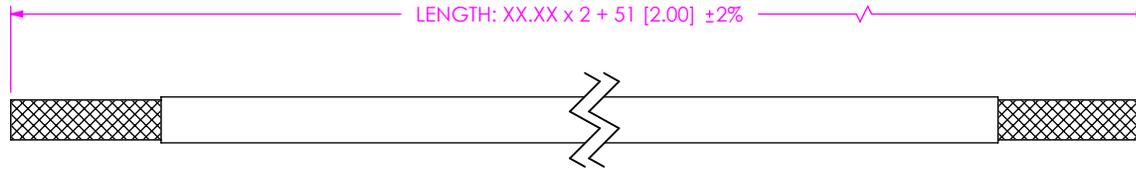


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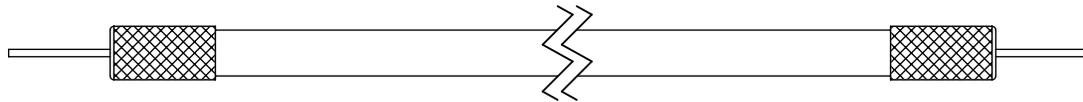
DESCRIPTION:
 SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 8 OF 11



-BC IN-PROCESS 1
 (CUT CABLE TO LENGTH AND STRIP OUTER JACKET)
 (SAME AS -D IN-PROCESS 1, UNLESS OTHERWISE STATED)

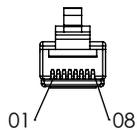


-BC IN-PROCESS 2
 (FOLD SHIELD BACK OVER JACKET)
 (SAME AS -D IN-PROCESS 2, UNLESS OTHERWISE STATED)



END 1

END 2



-BC: BLUNT CUT
IN-PROCESS 3
 TERMINATE FIRST END TO CONNECTOR
 (SAME AS -D IN-PROCESS 3, UNLESS OTHERWISE STATED)

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SHEET SCALE: 1:1.33333

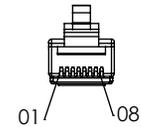
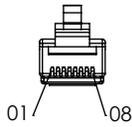
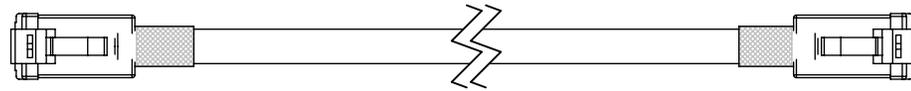


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DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

BY: CHAD F 12/11/2004 SHEET 9 OF 11



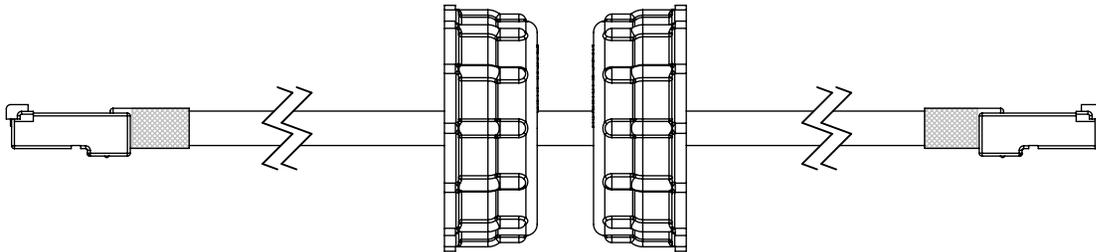
LENGTH: (XX.XX) x 2 + 51 [2.00] + (2 x "B") REF

**-BC: BLUNT CUT
IN-PROCESS 4**
TERMINATE SECOND END TO CONNECTOR
(SAME AS -D IN-PROCESS 4, UNLESS OTHERWISE STATED)
(SEE NOTE 8)

BREAK LATCH ARM FREE (2 PLCS)



**-BC: BLUNT CUT
IN-PROCESS 5**
REMOVE LATCH ARMS
(SAME AS -D IN-PROCESS 5, UNLESS OTHERWISE STATED)



**-BC: BLUNT CUT
IN-PROCESS 6**
ADD CABLE NUT
(SAME AS -D IN-PROCESS 6, UNLESS OTHERWISE STATED)

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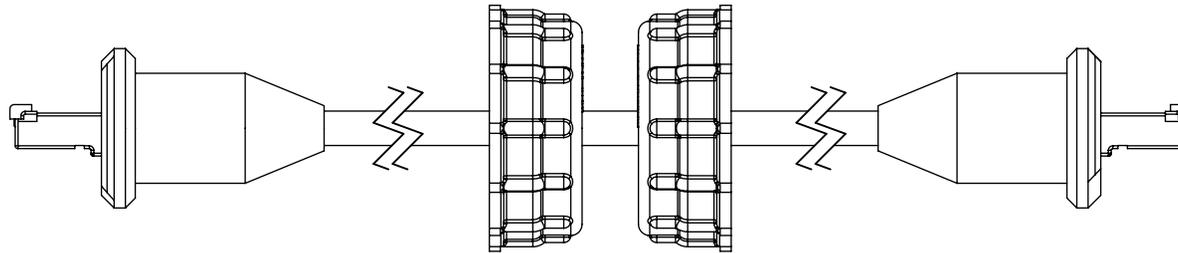


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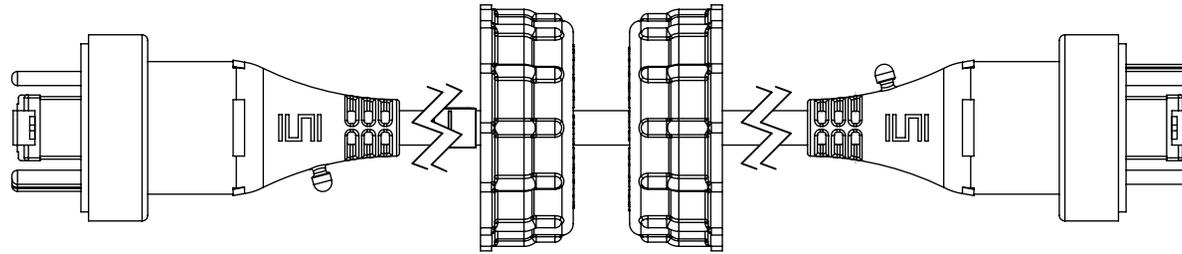
DESCRIPTION:
SEALED CIRCULAR CABLE PLUG, ETHERNET

DWG. NO. **SCPE-X-XX.XX-XX-X-XX**

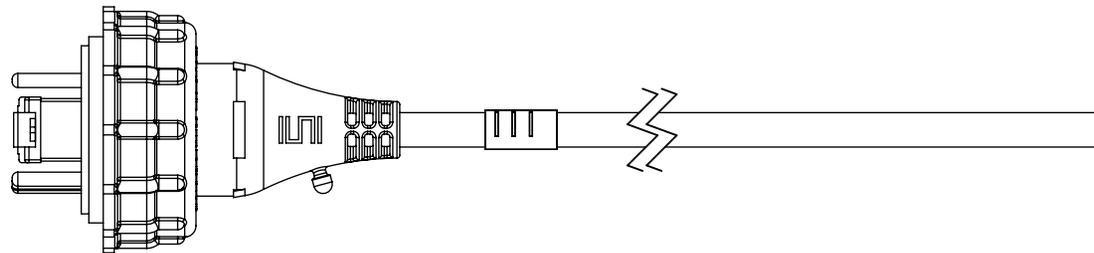
BY: CHAD F 12/11/2004 SHEET 10 OF 11



-BC: BLUNT CUT
IN-PROCESS 7
 PRE-MOLDING
 (SAME AS -D IN-PROCESS 7, UNLESS OTHERWISE STATED)



-BC: BLUNT CUT
IN-PROCESS 8
 OVMOLDING
 (SAME AS -D IN-PROCESS 8, UNLESS OTHERWISE STATED)
 (SEE NOTE 8)



-BC: BLUNT CUT
IN-PROCESS 9
 (CUT CABLE IN HALF AND TRIM TO LENGTH)

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