



DESIGNED & DIMENSIONED  
IN MILLIMETERS [INCHES]

DO NOT  
SCALE FROM  
THIS PRINT

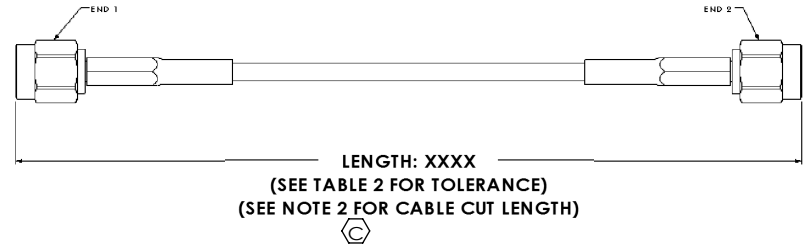
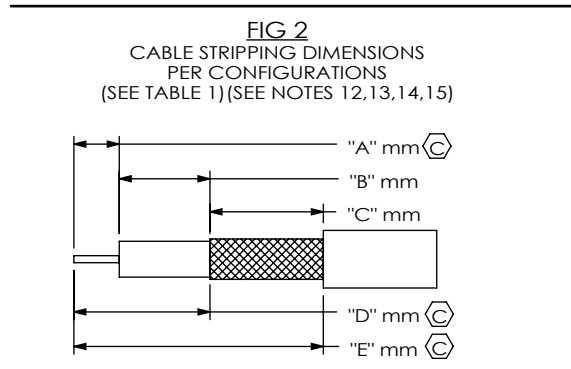


FIG 1  
RS316-01SPX-01SPX-XXXX SHOWN

**RS316-XXXX-XXXXXX-XXXX**

**CABLE CALL OUT**  
RS316: CCA-316-S (RG316 CABLE, DOUBLE SHIELD)

**END 1 CONNECTOR**  
-01SP: SMA-P-C-XX-ST-CA1S (SEE SHEET 2)  
-01BJ: SMA-J-C-XX-ST-BH1S (SEE SHEET 3)  
-02SP: MCX-P-C-XX-ST-CA1S (SEE SHEET 3)  
-02SJ: MCX-J-C-XX-ST-CA1S (SEE SHEET 3)  
-03SP: MMCX-P-C-XX-ST-CA1S (SEE SHEET 3)  
-04BJ: BNC5-J-C-XX-ST-BH1S (SEE SHEET 3)  
-05SP: TNC-P-C-XX-ST-CA1S (SEE SHEET 3)

**END 1 PLATING OPTION**  
1: GOLD ALL COMPONENTS  
2: GOLD / NICKEL COMBINATION  
3: ALTERNATE GOLD / NICKEL  
(SEE SHEET 2 FOR PLATING SPECIFICS)

**OVERALL CABLE LENGTH**  
MILLIMETERS OF CABLE  
0100 MIN. (SEE NOTE 8 & 9)

**END 2 PLATING OPTION**  
1: GOLD ALL COMPONENTS  
2: GOLD / NICKEL COMBINATION  
3: ALTERNATE GOLD / NICKEL  
(LEAVE BLANK FOR -SING OR -XXXXXX END 2 PREPARATION)


**END 2 CONNECTOR OR PREPARATION**  
-01SP: SMA-P-C-XX-ST-CA1S (SEE SHEET 2)  
-01BJ: SMA-J-C-XX-ST-BH1S (SEE SHEET 3)  
-02SP: MCX-P-C-XX-ST-CA1S (SEE SHEET 3)  
-02SJ: MCX-J-C-XX-ST-CA1S (SEE SHEET 3)  
-03SP: MMCX-P-C-XX-ST-CA1S (SEE SHEET 3)  
-04BJ: BNC5-J-C-XX-ST-BH1S (SEE SHEET 3)  
-05SP: TNC-P-C-XX-ST-CA1S (SEE SHEET 3)  
-SING: SINGLE ENDED (ONE END ONLY, SEE NOTE 11)  
-XXXXXX: STRIPPED AND TINNED (THIS END ONLY- SEE NOTES 11-15, 18 & SHEET 2, FIG 3)

(SEE FIG 2) "C" FORMAT: X.X mm  
(SEE FIG 2) "B" FORMAT: X.X mm  
(SEE FIG 2) "A" FORMAT: X.X mm

DO NOT LEAVE ANY SPACE BLANK,  
EACH MUST CONTAIN A  
NUMERIC CHARACTER 0 THRU 9.

- NOTES:
1. REPRESENTS A CRITICAL DIMENSION.
  2. CABLE CUT LENGTH:  
= (LENGTH: XXXX) - (SUBTRACTOR FOR END 1) - (SUBTRACTOR FOR END 2).  
(SEE TABLE 1 FOR SUBTRACTORS)
  3. ASSEMBLY TO BE 100% TESTED FOR OPENS & SHORTS.
  4. ASSEMBLY TO BE 100% HI-POT TESTED PER TABLE 1, THE TEST VOLTAGE FOR THE ASSEMBLY SHOULD BE SET TO THE END OPTION WITH THE LOWEST TEST VOLTAGE RATING
  5. AFTER FINAL ELECTRICAL TESTS, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL -ET
  6. CRITICALS ON CONNECTOR PRINTS TO BE CHECKED IN PROCESS.
  7. FINISHED ASSEMBLIES TO BE PACKAGED PER PACKAGING STANDARD CO-RF-WI-3040-M. ASSEMBLIES WITH LOCKWASHERS, NUTS, AND GASKETS TO BE SHIPPED KITTED AS ONE ASSEMBLY PER BAG, UNASSEMBLED.
  8. CABLE STOCKED IN INCHES, 1 INCH = 25.4 MILLIMETERS.
  9. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
  10. MINIMUM BEND RADIUS FOR RS316 = 12.8 [0.50]
  11. FOR SING ENDED OR STRIPPED AND TINNED ASSEMBLIES: MAKE A DOUBLE ENDED ASSEMBLY AT TWICE THE CABLE LENGTH AND TEST BEFORE CUTTING ASSEMBLY IN HALF.
  12. DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm & A MAXIMUM VALUE OF 9.9mm.
  13. PRODUCTION OF STRIP AND TIN FOR CENTER DIELECTIC USE: A.
  14. PRODUCTION OF STRIP AND TIN FOR SHIELD USE: D=A+B.
  15. PRODUCTION OF STRIP AND TIN FOR JACKET USE: E=A+B+C.
  16. CONNECTORS TO BE ORIENTED ACCORDING TO CO-HD-WI-3048-M.
  17. FOR BULKHEAD APPLICATIONS, THE END USER SHOULD TIGHTEN THE THREADED NUT TO 15 IN-LB MINIMUM.
  18. FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.

F:\DWG\MISC\MTG\RS316-XXXX-XXXXXX-XXXX-MKT.SLDDRW

<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE:</p> <p>DECIMALS      ANGLES</p> <p>.X: ±0.3 [.01]      5°</p> <p>.XX: ±0.13 [.005]</p> <p>.XXX: ±0.051 [.0020]</p>	<p><b>PROPRIETARY NOTE</b></p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.</p>	 <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733    FAX: 812-948-5047 e-Mail: info@SAMTEC.com    code 55322</p> <p>DESCRIPTION: RG316 (DOUBLE SHIELD) CABLE ASSEMBLY</p> <p>DWG. NO. <b>RS316-XXXX-XXXXXX-XXXX</b></p> <p>BY: EMMA CHEN    3/20/2013    SHEET 1 OF 3</p>
<p><b>MATERIAL:</b>      DO NOT SCALE DRAWING      SHEET SCALE: 2:1 SEE END 1 AND END 2 ASSEMBLY PRINTS</p>		

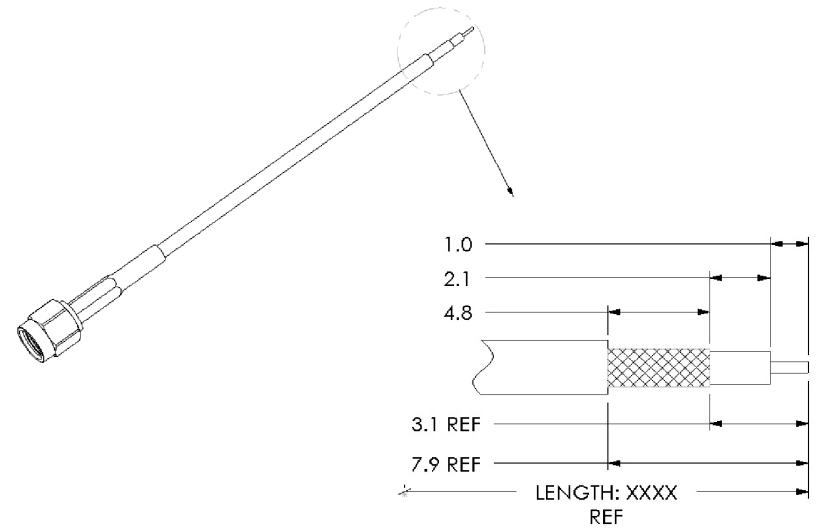
**TABLE 2: FINAL ASSEMBLY LENGTH TOLERANCE**

LENGTH	TOLERANCE
0100-0200 [3.92-7.87]	+3.0 [.12]/-0.0 [.00]
0200-0500 [7.87-19.69]	+5.0 [.20]/-0.0 [.00]
0500-1100 [19.69-43.30]	+10.0 [.40]/-0.0 [.00]
>1100 [43.30]	± 1%

**TABLE 1**

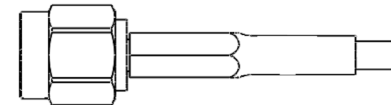
CABLE STYLE	CABLE STRIPPING DIMENSIONS			CABLE CUT LENGTH SUBTRACTOR	HI-POT DCV
	"A"	"D"	"E"		
-01SPX	2.6 [0.10]	3.6 [0.14]	10.1 [0.40]	5.7 [0.22]	1000
-01BJX	2.9 [0.11]	6.4 [0.25]	12.8 [0.50]	9.0 [0.35]	1000
-02SPX	2.4 [0.09]	3.8 [0.15]	8.5 [0.33]	7.3 [0.29]	1000
-02SJX	2.6 [0.10]	5.0 [0.20]	10.1 [0.40]	6.5 [0.26]	1000
-03SPX	2.0 [0.08]	4.2 [0.17]	9.2 [0.36]	4.2 [0.17]	1000
-04BJX	4.3 [0.17]	8.4 [0.33]	17.6 [0.69]	13.3 [0.52]	1000
-05SPX	5.1 [0.20]	8.6 [0.34]	17.4 [0.69]	9.2 [0.36]	1000
-SING	-	-	-	0.0 [0.00]	1000
-XXXXXX	-	-	-	0.0 [0.00]	1000

**FIG 3**  
RS316-01SPX-102148-XXXX SHOWN



**-01SP**  
(STRAIGHT PLUG)

(USE DRAWING No. SMA-P-C-XX-ST-CA1S FOR ASSEMBLY INSTRUCTIONS)



**PLATING**

- 1: 30µ" MIN. GOLD CENTER CONTACT
- 3µ" MIN. GOLD OUTER CONTACT
- 3µ" MIN. GOLD REMAINING METAL PARTS (END CONNECTOR P/N: SMA-P-C-HF-ST-CA1S)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-P-C-XX-ST-CA1S THAT APPLY MUST BE VERIFIED.

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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:  
RG316 (DOUBLE SHIELD) CABLE ASSEMBLY

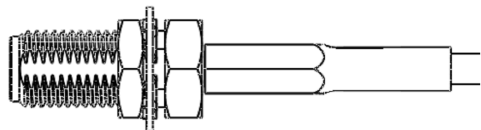
DWG. NO.  
**RS316-XXXXX-XXXXXX-XXXX**

BY: EMMA CHEN 3/20/2013 SHEET 2 OF 3

REVISION E

**-01BJ**  
(STRAIGHT BULKHEAD JACK)

(USE DRAWING No. SMA-J-C-XX-ST-BH1S FOR ASSEMBLY INSTRUCTIONS)

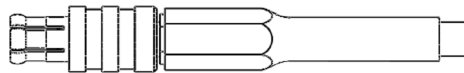


PLATING  
1: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-HF-ST-BH1S)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-XX-ST-BH1S THAT APPLY MUST BE VERIFIED.

**-02SP**  
(STRAIGHT PLUG)

(USE DRAWING No. MCX-P-C-XX-ST-CA1S FOR ASSEMBLY INSTRUCTIONS)



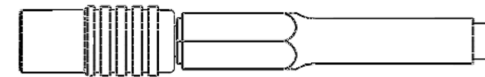
PLATING  
1: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MCX-P-C-HF-ST-CA1S)

2: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
100µ" MIN. NICKEL REMAINING METAL PARTS  
(END CONNECTOR P/N: MCX-P-C-HN-ST-CA1S)

NOTE: ALL CRITICAL DIMENSIONS ON MCX-P-C-XX-ST-CA1S THAT APPLY MUST BE VERIFIED.

**-02SJ**  
(STRAIGHT JACK)

(USE DRAWING No. MCX-J-C-XX-ST-CA1S FOR ASSEMBLY INSTRUCTIONS)

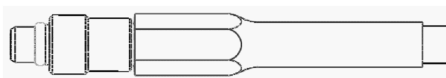


PLATING  
1: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MCX-J-C-HF-ST-CA1S)

NOTE: ALL CRITICAL DIMENSIONS ON MCX-J-C-XX-ST-CA1S THAT APPLY MUST BE VERIFIED.

**-03SP**  
(STRAIGHT PLUG)

(USE DRAWING No. MMCX-P-C-XX-ST-CA1S FOR ASSEMBLY INSTRUCTIONS)



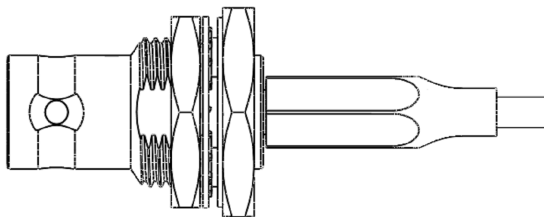
PLATING  
1: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MMCX-P-C-HF-ST-CA1S)

2: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
100µ" MIN. NICKEL REMAINING METAL PARTS  
(END CONNECTOR P/N: MMCX-P-C-HN-ST-CA1S)

NOTE: ALL CRITICAL DIMENSIONS ON MMCX-P-C-XX-ST-CA1S THAT APPLY MUST BE VERIFIED.

**-04BJ**  
(STRAIGHT BULKHEAD JACK)

(USE DRAWING No. BNC5-J-C-XX-ST-BH1S FOR ASSEMBLY INSTRUCTIONS)



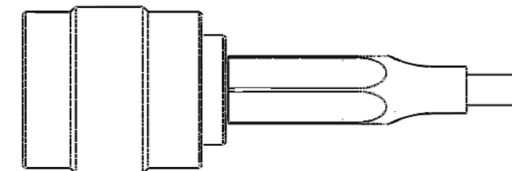
PLATING  
2: 30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
100µ" MIN. NICKEL REMAINING METAL PARTS  
(END CONNECTOR P/N: BNC5-J-C-HN-ST-BH1S)

3: 10µ" MIN. GOLD CENTER CONTACT  
100µ" MIN. NICKEL OUTER CONTACT  
100µ" MIN. NICKEL REMAINING METAL PARTS  
(END CONNECTOR P/N: BNC5-J-C-GN-ST-BH1S)

NOTE: ALL CRITICAL DIMENSIONS ON BNC5-J-C-XX-ST-BH1S THAT APPLY MUST BE VERIFIED.

**-05SP**  
(STRAIGHT PLUG)

(USE DRAWING No. TNC-P-C-XX-ST-CA1S FOR ASSEMBLY INSTRUCTIONS)



PLATING  
3: 10µ" MIN. GOLD CENTER CONTACT  
100µ" MIN. NICKEL OUTER CONTACT  
100µ" MIN. NICKEL REMAINING METAL PARTS  
(END CONNECTOR P/N: TNC-P-C-GN-ST-CA1S)

NOTE: ALL CRITICAL DIMENSIONS ON TNC-P-C-XX-ST-CA1S THAT APPLY MUST BE VERIFIED.

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DESCRIPTION:  
RG316 (DOUBLE SHIELD) CABLE ASSEMBLY

DWG. NO.  
RS316-XXXXX-XXXXXX-XXXX

BY: EMMA CHEN 3/20/2013 SHEET 3 OF 3