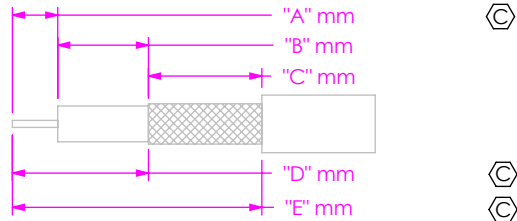


DO NOT SCALE FROM THIS PRINT

FIG 2  
CABLE STRIPPING DIMENSIONS  
PER CONFIGURATIONS  
(SEE TABLE 1)(SEE NOTES 12,13,14,15)



**TABLE 2: FINAL ASSEMBLY LENGTH TOLERANCE**

LENGTH	TOLERANCE
0030-0200 [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%

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

**TABLE 1**

STYLE	CABLE STRIPPING DIMENSIONS			CABLE CUT LENGTH		HI POT
	"A"	"D"	"E"	SUBTRACTOR	DCV	
-MH1RP	1.2 [0.05]	2.5 [0.10]	3.5 [0.14]	0.5 [0.02]	200	
-MH3RP	1.0 [0.04]	1.4 [0.06]	2.4 [0.09]	0.5 [0.02]	200	
-01BJ1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200	
-01BJ2	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200	
-01SB1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200	
-01SR1	2.5 [0.10]	3.1 [0.12]	11.5 [0.45]	9.5 [0.37]	200	
** -MH4RP	N/A	N/A	N/A	N/A	200	
-SING	-	-	-	0.0 [0.00]	200	

(\*\* = ONLY AVAILABLE ON END 2 WITH MH4RP OPTION, SING OPTION & XXXXXX OPTION)

NOTES:

- ⊙ REPRESENTS A CRITICAL DIMENSION.
- CABLE CUT LENGTH:  
= (LENGTH: XXXX) - (SUBTRACTOR FOR END 1) - (SUBTRACTOR FOR END 2).  
(SEE TABLE 1 FOR SUBTRACTORS)
- ASSEMBLY TO BE 100% TESTED FOR OPENS & SHORTS.
- 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.
- AFTER FINAL ELECTRICAL TESTS, LABEL EACH CABLE ASSEMBLY WITH 1 LABEL -ET. FOR LENGTHS UNDER 100MM, WITHOUT LABEL, SHOULD BE MADE A MARK ON THE CABLE.
- CRITICALS ON CONNECTOR PRINTS TO BE CHECKED IN PROCESS.
- 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.
- CABLE STOCKED IN INCHES, 1 INCH = 25.4 MILLIMETERS.
- CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. TEST DATA.
- MINIMUM BEND RADIUS FOR MH081 = 5.0 [.20]  
MH113 = 6.8 [.27]
- 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.
- DIM "A", "B", AND "C" HAVE A MINIMUM VALUE OF 0.0mm  
& A MAXIMUM VALUE OF 9.9mm.
- PRODUCTION OF STRIP AND TIN FOR CENTER DIELECTIC USE: A.
- PRODUCTION OF STRIP AND TIN FOR SHIELD USE: D=A+B.
- PRODUCTION OF STRIP AND TIN FOR JACKET USE: E=A+B+C.
- FOR -RA TO -RA, CONNECTORS SHOULD BOTH BE ORIENTED UP. (SEE SHEET 2, FIG. 4)
- FOR STRIPPED AND TINNED OPTION, ONLY THE CENTER CONDUCTOR IS TINNED.
- IF NO MHXXX OPTION IS LISTED FOR EITHER END, MINIMUM LENGTH IS 100MM.
- JACKET SLUG IS LEFT PARTIALLY INSERTED OVER SHIELD TO PREVENT DAMAGE DURING SHIPPING.

DESIGNED & DIMENSIONED  
IN MILLIMETERS [INCHES]

MHXXX-XXXXX-XXXXXX-XXXX

CABLE CALLOUT

- 081: CCA-081  
(0.81 OD MINIATURE COAX CABLE)
- 113: CCA-113  
(1.13 OD MINIATURE COAX CABLE)

END 1 CONNECTOR

- MH1RP: MHF1-P-C-X-RA-CAX (SEE SHEET 2)  
(081 CABLE TYPE: MHF1-P-C-X-RA-CA3)  
(113 CABLE TYPE: MHF1-P-C-X-RA-CA4)
- MH3RP: MHF3-P-C-X-RA-CA3 (SEE SHEET 2)  
(081 CABLE TYPE ONLY)
- \*\* -MH4RP: MHF4-P-C-XX-RA-CA3 (SEE SHEET 3)  
(081 CABLE TYPE ONLY)
- 01BJ1: SMA-J-C-X-ST-BHX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BH3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BH4)
- 01BJ2: SMA-J-C-X-ST-BRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BR4)
- 01SB1: SMA-J-C-X-ST-SBX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SB3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SB4)
- 01SR1: SMA-J-C-X-ST-SRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SR4)

OVERALL CABLE LENGTH  
MILLIMETERS OF CABLE  
0030 MIN. (SEE NOTE 8, 9 & 18)

END 2 CONNECTOR OR PREPARATION

- MH1RP: MHF1-P-C-X-RA-CAX (SEE SHEET 2)  
(081 CABLE TYPE: MHF1-P-C-X-RA-CA3)  
(113 CABLE TYPE: MHF1-P-C-X-RA-CA4)
- MH3RP: MHF3-P-C-X-RA-CA3 (SEE SHEET 2)  
(081 CABLE TYPE ONLY)
- \*\*\* -MH4RP: MHF4-P-C-XX-RA-CA3 (SEE SHEET 3)  
(081 CABLE TYPE ONLY)
- 01BJ1: SMA-J-C-X-ST-BHX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BH3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BH4)
- 01BJ2: SMA-J-C-X-ST-BRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-BR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-BR4)
- 01SB1: SMA-J-C-X-ST-SBX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SB3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SB4)
- 01SR1: SMA-J-C-X-ST-SRX (SEE SHEET 2)  
(081 CABLE TYPE: SMA-J-C-X-ST-SR3)  
(113 CABLE TYPE: SMA-J-C-X-ST-SR4)
- SING: SINGLE ENDED (ONE END ONLY, SEE NOTE 11)
- XXXXX: STRIPPED AND TINNED (THIS END ONLY -  
SEE NOTES 11-15, 17, 19 & SHEET 2, FIG 3)

(\*\* = ONLY AVAILABLE WHEN END 2 IS MH4RP OPTION, SING OPTION & XXXXXX OPTION)

(\*\*\* = ONLY AVAILABLE WHEN END 1 IS MH4RP OPTION)

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

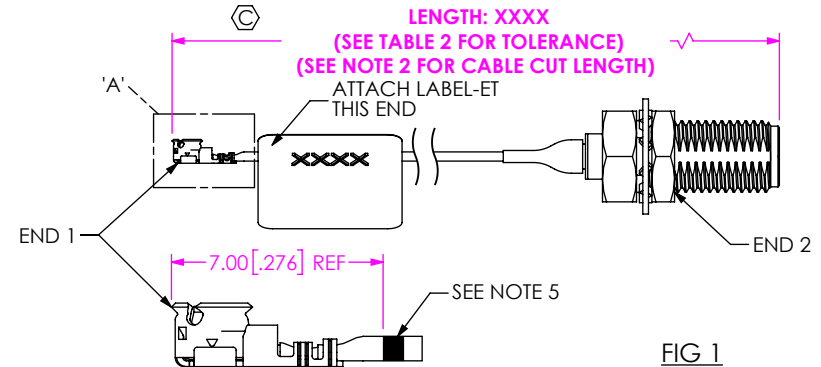


FIG 1  
MHXXX-MH1RP-01BJ1-XXXX SHOWN

DETAIL 'A'  
SCALE 4:1

(ONLY BE USED FOR LENGTH UNDER 100MM)

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES].

TOLERANCES ARE:  
DECIMALS ANGLES  
.X: ±0.3 [.01] 2°  
.XX: ±0.13 [.005]  
.XXX: ±0.051 [.0020]

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MATERIAL: DO NOT SCALE DRAWING  
SEE END 1 AND END 2 ASSEMBLY PRINTS

SHEET SCALE: 2:1



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

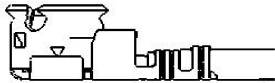
DESCRIPTION: MICRO RF CABLE ASSEMBLY

DWG. NO. MHXXX-XXXXX-XXXXXX-XXXX

BY: CUMMINGS 07/26/2005 SHEET 1 OF 3

**-MH1RP**  
(RIGHT ANGLE PLUG)

(081 CABLE TYPE USE DRAWING No. MHF1-P-C-X-RA-CA3 FOR ASSEMBLY INSTRUCTIONS)  
(113 CABLE TYPE USE DRAWING No. MHF1-P-C-X-RA-CA4 FOR ASSEMBLY INSTRUCTIONS)

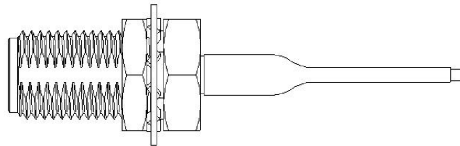


PLATING  
3.9µ" MIN. GOLD CENTER CONTACT  
1.9µ" MIN. GOLD OUTER CONTACT  
1.9µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MHF1-P-C-X-RA-CA3)  
OR (END CONNECTOR P/N: MHF1-P-C-X-RA-CA4)

NOTE: ALL CRITICAL DIMENSIONS ON MHF1-P-C-X-RA-CA3 THAT APPLY MUST BE VERIFIED.

**-01BJ1**  
(STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BH3 FOR ASSEMBLY INSTRUCTIONS)  
(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BH4 FOR ASSEMBLY INSTRUCTIONS)

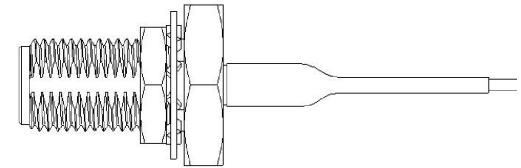


PLATING  
30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-BH3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BH4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-BH3 OR SMA-J-C-X-ST-BH4 THAT APPLY MUST BE VERIFIED.

**-01SB1**  
(SEALED STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SB3 FOR ASSEMBLY INSTRUCTIONS)  
(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SB4 FOR ASSEMBLY INSTRUCTIONS)

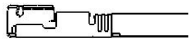


PLATING  
30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-SB3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-SB4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-SB3 OR SMA-J-C-X-ST-SB4 THAT APPLY MUST BE VERIFIED.

**-MH3RP**  
(RIGHT ANGLE PLUG)

(081 CABLE TYPE USE DRAWING No. MHF3-P-C-X-RA-CA3 FOR ASSEMBLY INSTRUCTIONS)

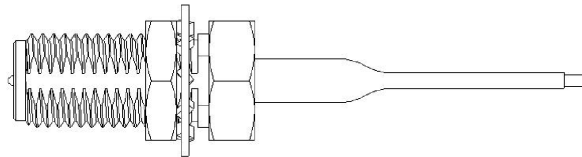


PLATING  
3.9µ" MIN. GOLD CENTER CONTACT  
1.9µ" MIN. GOLD OUTER CONTACT  
1.9µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: MHF3-P-C-X-RA-CA3)

NOTE: ALL CRITICAL DIMENSIONS ON MHF3-P-C-X-RA-CA3 THAT APPLY MUST BE VERIFIED.

**-01BJ2 (REVERSED POLARITY)**  
(STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BR3 FOR ASSEMBLY INSTRUCTIONS)  
(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-BR4 FOR ASSEMBLY INSTRUCTIONS)

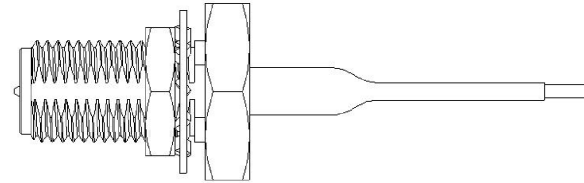


PLATING  
30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-BR3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BR4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-BR3 OR SMA-J-C-X-ST-BR4 THAT APPLY MUST BE VERIFIED.

**-01SR1 (REVERSED POLARITY)**  
(SEALED STRAIGHT BULKHEAD JACK)

(081 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SR3 FOR ASSEMBLY INSTRUCTIONS)  
(113 CABLE TYPE USE DRAWING No. SMA-J-C-X-ST-SR4 FOR ASSEMBLY INSTRUCTIONS)



PLATING  
30µ" MIN. GOLD CENTER CONTACT  
3µ" MIN. GOLD OUTER CONTACT  
3µ" MIN. GOLD REMAINING METAL PARTS  
(END CONNECTOR P/N: SMA-J-C-H-ST-SR3)  
OR (END CONNECTOR P/N: SMA-J-C-H-ST-SR4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-SR3 OR SMA-J-C-X-ST-SR4 THAT APPLY MUST BE VERIFIED.

FIG 3  
MHXXX-MH1RP-102148-XXXX SHOWN

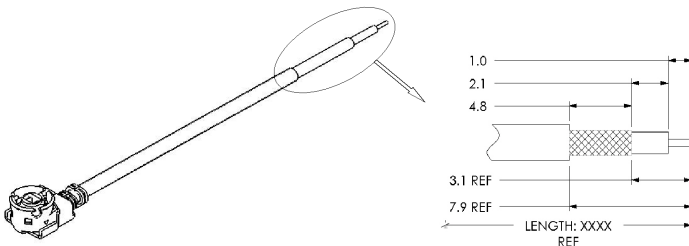
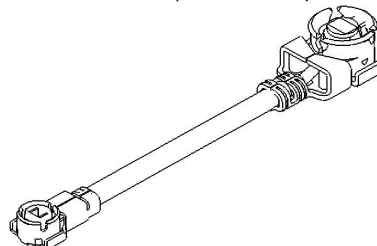


FIG 4  
MH081-MH3RP-MH1RP-XXXX SHOWN  
(SEE NOTE 16)



F:\DWG\MISC\MKTG\MHXXX-XXXX-XXXX-XXXX-MKT.SLDDRW

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

DESCRIPTION: MICRO RF CABLE ASSEMBLY  
DWG. NO. MHXXX-XXXXX-XXXXXX-XXXX  
BY: CUMMINGS 07/26/2005 SHEET 2 OF 3

**-MH4RP**  
(RIGHT ANGLE PLUG)

(081 CABLE TYPE USE DRAWING No. MHF4-P-C-XX-RA-CA3  
FOR ASSEMBLY INSTRUCTIONS)



PLATING  
10µ" MIN. GOLD CENTER CONTACT  
2µ" MIN. GOLD OUTER CONTACT

(END CONNECTOR P/N: MHF4-P-C-XX-RA-CA3)

NOTE: ALL CRITICAL DIMENSIONS ON MHF4-P-C-XX-RA-CA3  
THAT APPLY MUST BE VERIFIED.

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

DESCRIPTION:  
MICRO RF CABLE ASSEMBLY

DWG. NO.  
MHXXX-XXXXX-XXXXXX-XXXX

BY: CUMMINGS 07/26/2005 SHEET 3 OF 3