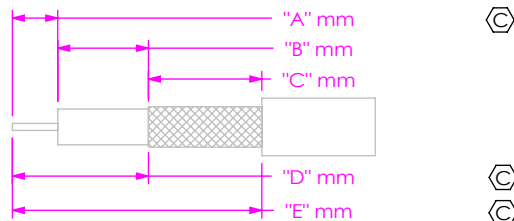




THE DATASHEET OF MH113-MH1RP-01SB1-0100

DO NOT
SCALE FROM
THIS PRINT

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



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					
CABLE STRIPPING DIMENSIONS				CABLE CUT LENGTH	HI POT
STYLE	"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

(** = NOT AVAILABLE WHEN ANY END IS -MH1RP & -MH3RP OPTION)

NOTES:

- ① 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)
(SEE FIG 2) "C" FORMAT: X.Xmm
(SEE FIG 2) "B" FORMAT: X.Xmm
(SEE FIG 2) "A" FORMAT: X.Xmm

(** = NOT AVAILABLE WHEN END 2
IS -MH1RP & -MH3RP OPTION)

(*** = NOT AVAILABLE WHEN END 1
IS -MH1RP & -MH3RP OPTION)

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

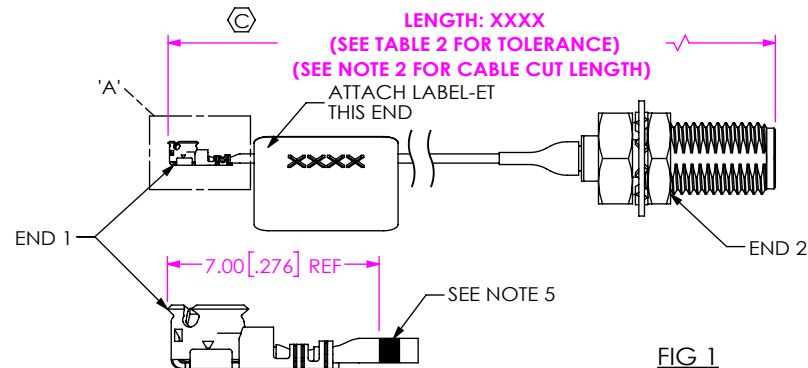


FIG 1

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

samtec

520 PARK EAST BLVD, NEW ALBANY, IN 47150
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)



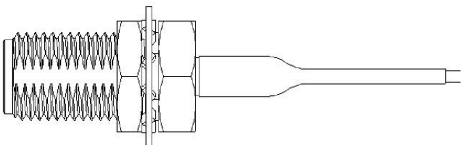
PLATING
3.9μ" MIN. GOLD CENTER CONTACT
1.9μ" MIN. GOLD OUTER CONTACT
1.9μ" MIN. GOLD REMAINING METAL PARTS
(END CONNECTOR P/N: MHF1-P-C-X-RA-CA3)
OR (END CONNECTOR P/N: MHF1-P-C-X-RA-CA4)

NOTE: ALL CRITICAL DIMENSIONS ON MHF1-P-C-X-RA-CAX
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)



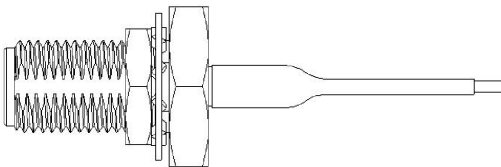
PLATING
30μ" MIN. GOLD CENTER CONTACT
3μ" MIN. GOLD OUTER CONTACT
3μ" MIN. GOLD REMAINING METAL PARTS
(END CONNECTOR P/N: SMA-J-C-H-ST-BH3)
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BH4)

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)



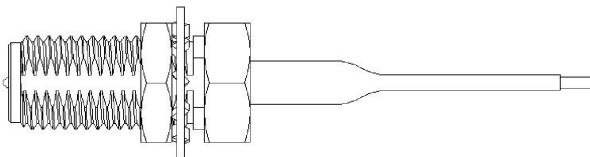
PLATING
3.9μ" MIN. GOLD CENTER CONTACT
1.9μ" MIN. GOLD OUTER CONTACT
1.9μ" MIN. GOLD REMAINING METAL PARTS
(END CONNECTOR P/N: MHF3-P-C-X-RA-CA3)

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)



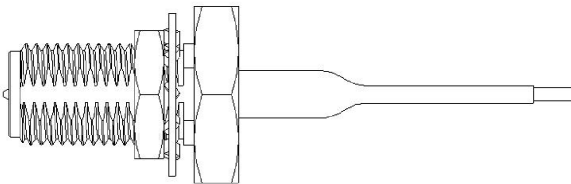
PLATING
30μ" MIN. GOLD CENTER CONTACT
3μ" MIN. GOLD OUTER CONTACT
3μ" MIN. GOLD REMAINING METAL PARTS
(END CONNECTOR P/N: SMA-J-C-H-ST-BR3)
OR (END CONNECTOR P/N: SMA-J-C-H-ST-BR4)

NOTE: ALL CRITICAL DIMENSIONS ON SMA-J-C-X-ST-BR3 OR
SMA-J-C-X-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-SR4 THAT APPLY MUST BE VERIFIED.

FIG 3
MHXXX-MH1RP-T02148-XXXX SHOWN

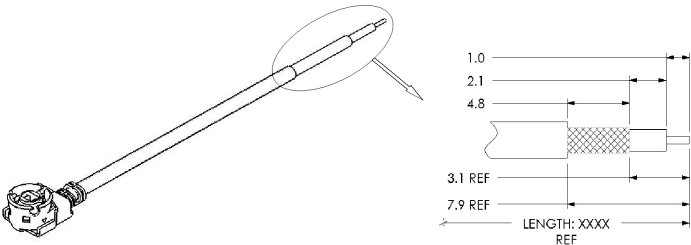
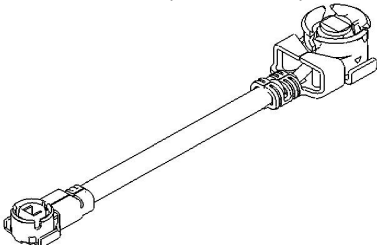


FIG 4
MH081-MH3RP-MH1RP-XXXX SHOWN
(SEE NOTE 16)



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

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samtec

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

DESCRIPTION: MICRO RF CABLE ASSEMBLY

DWG. NO. MHXXX-XXXXXX-XXXXXX-XXXX

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

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