

DO NOT
SCALE FROM
THIS PRINT

**DESIGNED AND DIMENSIONED IN MILLIMETERS [INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN**

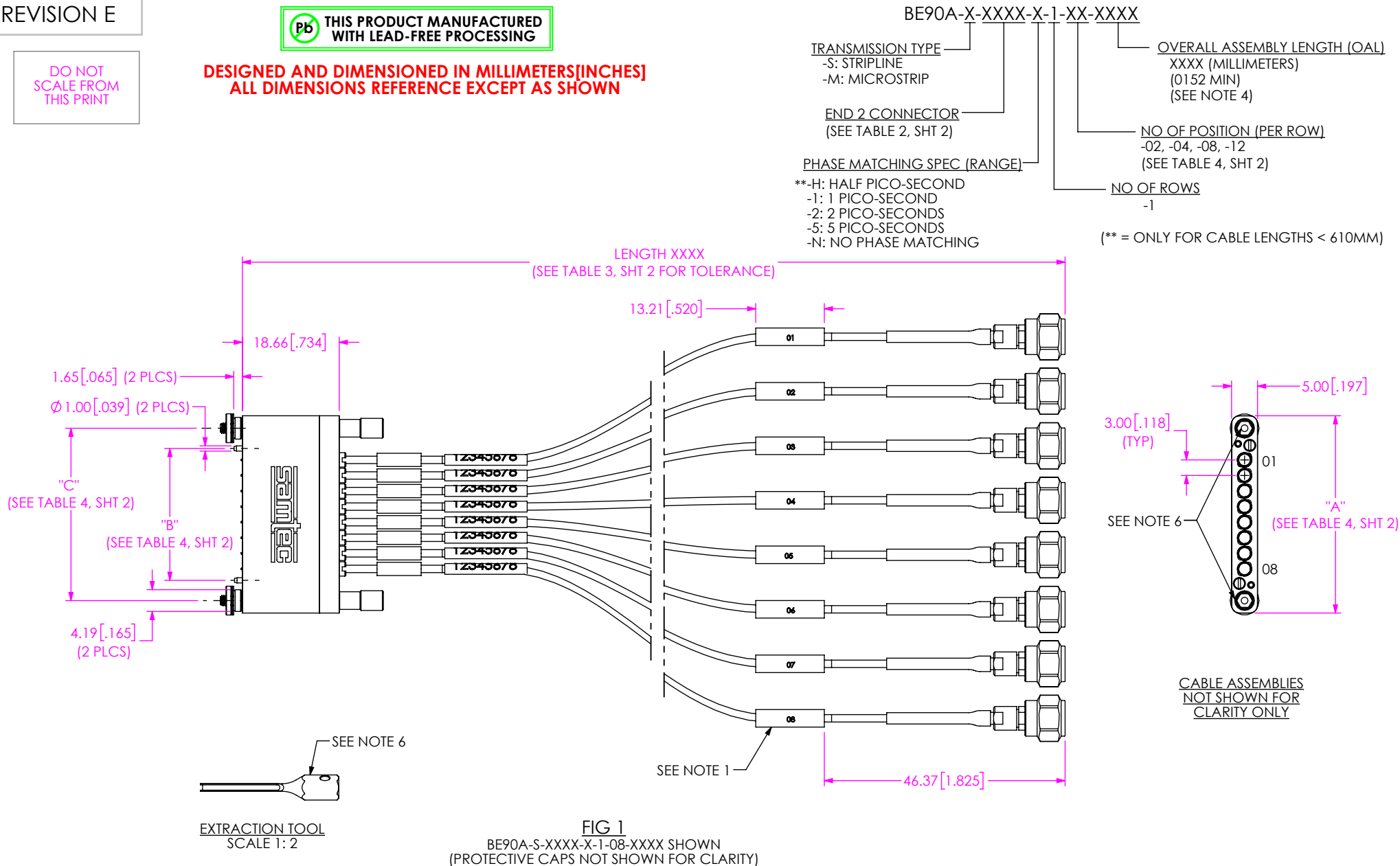


FIG 1
BE90A-S-XXXX-X-1-08-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

NOTES:

1. PRINT CABLE POSITION ON WHITE HEAT SHRINK AND APPLY TO CABLES AS SHOWN.
2. FERRULE AND SPRING ARE FREE FLOATING AND ARE NOT STATIONARY.
3. ASSEMBLY TO HAVE END 1 WRAPPED IN ANTI-STATIC BUBBLE WRAP
END 2 ASSEMBLED WITH PROTECTIVE CAPS.
4. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED S.I. TEST DATA.
5. WHEN MOUNTED TO PCB, TIGHTEN PCB SCREW TO 2.0 - 2.5 IN-LBS USING
2.5MM HEX TOOL (NOT PROVIDED).
6. EXTRACTION TOOL TO BE PACKAGED IN ESD BAG (BG-04-06-Z) AND INCLUDED WITH ASSEMBLY.
7. RECOMMEND PCB THICKNESS: 0.061IN - 0.161IN (SEE SHEET 6).
8. FOR NO PHASE MATCHING SPEC, CABLE ASSEMBLY READ AS BE90C-X-XXXX-N-01-XXXX,
QUANTITY = ROW X POS.

c:\enterprise\dwg\MISC\MKTG\BE90A-X-XXXX-X-1-XX-XXXX-MKT.SLDDRW

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MATERIAL: DO NOT SCALE DRAWING
SHEET SCALE: 1:1

HOUSING, COVER, SCREWS,
SHELL, FERRULE, PIN, BODY: BRASS
ALIGNMENT PINS, SCREWS, SHELLS, CABLE BODY,
C-RING, NUT INSERT, RETAINER, NUTS: STAINLESS STEEL

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: BE90A GANGED ASSEMBLY

DWG. NO.
BE90A-X-XXXX-X-1-XX-XXXX

BY: EVE L 03/16/2023 SHEET 1 OF 7

TABLE 2							
END OPTION	SERIES	GENDER	FINISH			CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY		
-10BJ	1.00 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF10-J-C-VP-047A-BS	SHT 3, FIG 4
-10SP	1.00 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF10-P-C-VP-047A-SS	SHT 3, FIG 5
-13BJ	1.35 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF13-J-C-VP-047A-BS	SHT 3, FIG 6
-13SP	1.35 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF13-P-C-VP-047A-SS	SHT 3, FIG 7
-18SP	1.85 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF18-P-C-EP-047A-SS	SHT 4, FIG 8
-18SJ	1.85 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF18-J-C-EP-047A-SS	SHT 4, FIG 9
-24SP	2.4 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-P-C-EP-047A-SS	SHT 4, FIG 10
-24SJ	2.4 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-047A-SS	SHT 4, FIG 11
-92SP	2.92 MM	PLUG	50µ" GOLD	PASSIVATED	PASSIVATED	PRF92-P-C-EP-047A-SS	SHT 5, FIG 12
-92SJ	2.92 MM	JACK	50µ" GOLD	PASSIVATED	PASSIVATED	PRF92-J-C-EP-047A-SS	SHT 5, FIG 13
-M0SJ	SMPM	JACK	30µ" GOLD	10µ" GOLD	3µ" GOLD	PRFM0-J-C-HG-047A-SD	SHT 5, FIG 14
-00SJ	SMP	JACK	50µ" GOLD	50µ" GOLD	50µ" GOLD	PRF00-J-C-EE-047A-SD-X	SHT 5, FIG 15

TABLE 3: FINAL ASSEMBLY LENGTH TOLERANCE	
OVERALL LENGTH	TOLERANCE
0152-0200 [5.98-7.87]	+3.0 [.12] / -0.0 [.00]
0201-0500 [7.91-19.69]	+5.0 [.20] / -0.0 [.00]
0501-9999 [19.72-393.66]	+10.0 [.39] / -0.0 [.00]

TABLE 4			
No OF POSITIONS	"A"	"B"	"C"
-02	20.00 [0.787]	15.20 [0.598]	7.40 [0.291]
-04	26.00 [1.024]	21.20 [0.835]	13.40 [0.528]
-08	38.00 [1.496]	33.20 [1.307]	25.40 [1.000]
-12	50.00 [1.969]	45.20 [1.780]	37.40 [1.472]

TABLE 5 - PHASE MATCHED PAIRS		
PAIR NO.	POSITION	POSITION
1	01	02
2	03	04
3	05	06
4	07	08
5	09	10
6	11	12

CAUTION: EACH PAIR OF CABLES TO BE PHASE
MATCHED PER CALLOUT. IF RE-WORKED,
THE ENTIRE PAIR MUST BE REPLACED.

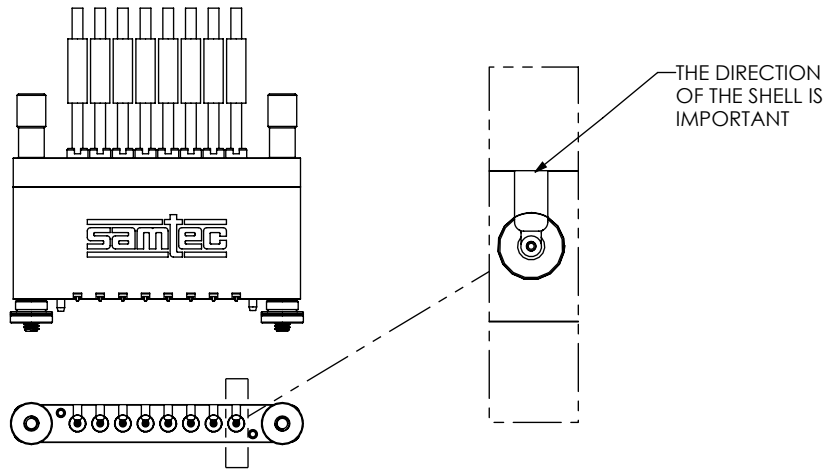


FIG 3
BE90A-M-XXXX-X-1-08-XXXX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
END 2 NOT SHOWN FOR CLARITY

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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

SHEET SCALE: 1:1
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DESCRIPTION:
BE90A GANGED ASSEMBLY

DWG. NO.
BE90A-X-XXXX-X-1-XX-XXXX

BY: EVE L 03/16/2023 SHEET 2 OF 7

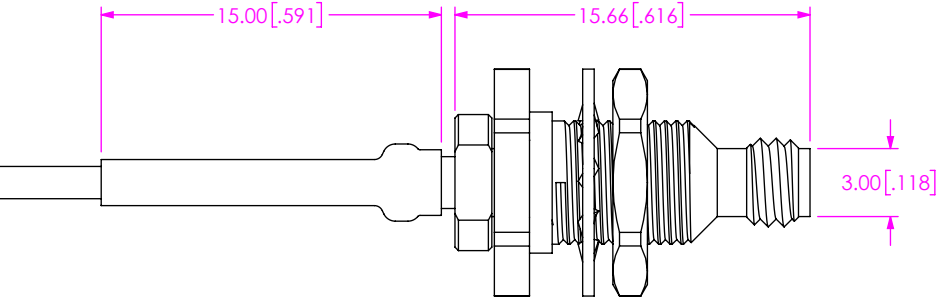


FIG 4
-10BJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

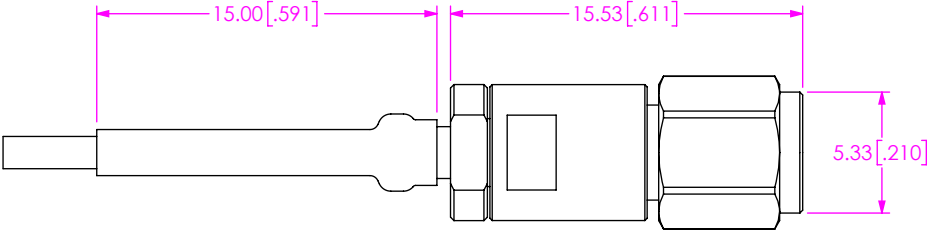


FIG 5
-10SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

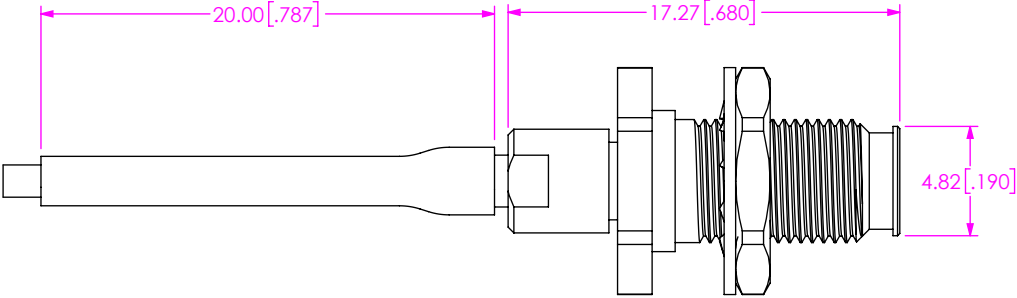


FIG 6
-13BJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

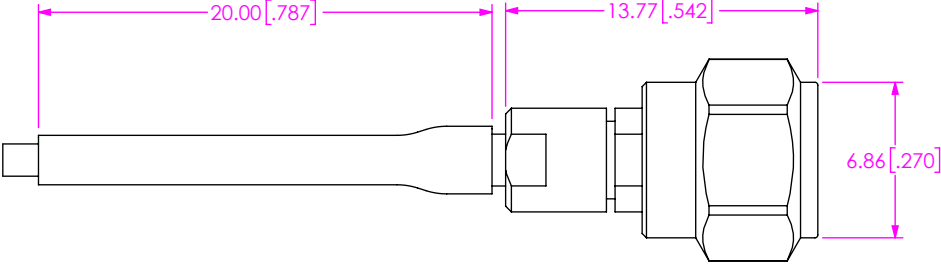


FIG 7
-13SP SHOWN
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	DESCRIPTION: BE90A GANGED ASSEMBLY DWG. NO. BE90A-X-XXXX-X-1-XX-XXXX
BY: EVE L 03/16/2023 SHEET 3 OF 7	

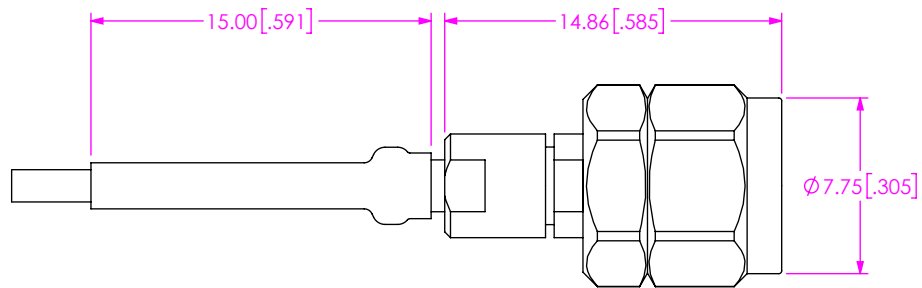


FIG 8
-18SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

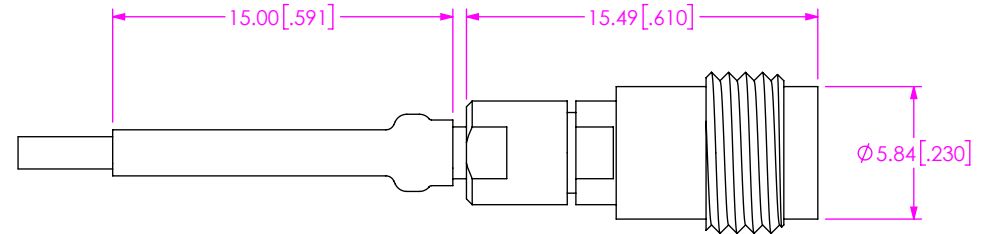


FIG 9
-18SJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

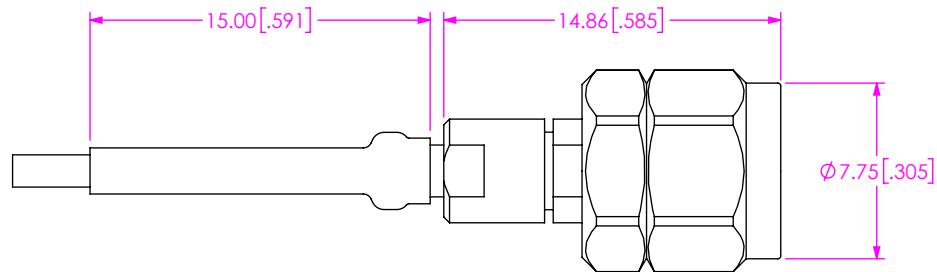


FIG 10
-24SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

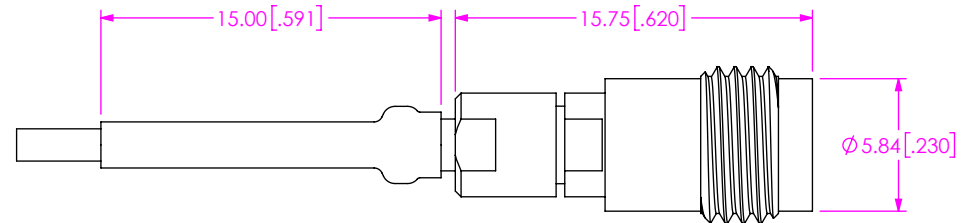


FIG 11
-24SJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

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PHONE: 812-944-6733 FAX: 812-948-5047
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DESCRIPTION:
BE90A GANGED ASSEMBLY

DWG. NO.
BE90A-X-XXXX-X-1-XX-XXXX

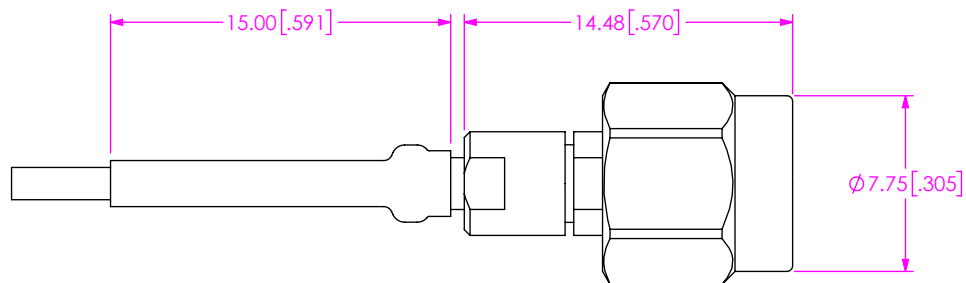


FIG 12
-92SP SHOWN
(CABLE CUT FOR CLARITY ONLY)

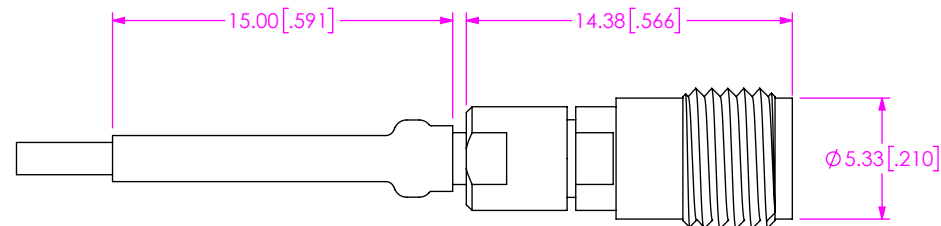


FIG 13
-92SJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

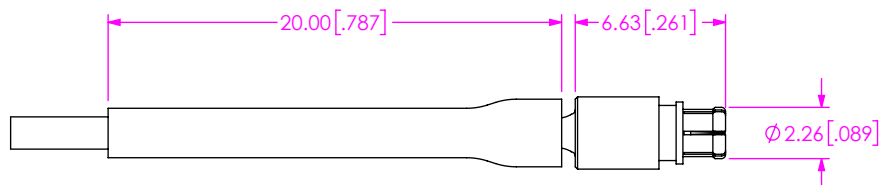


FIG 14
-M05SJ SHOWN
(CABLE CUT FOR CLARITY ONLY)

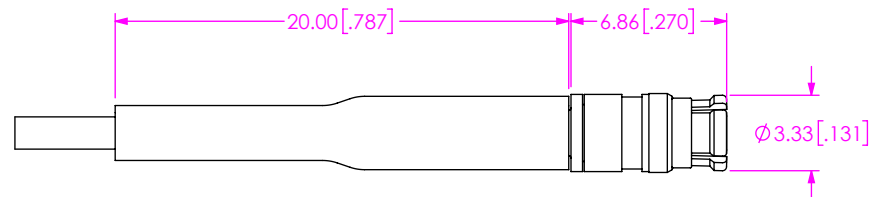


FIG 15
-005SJ SHOWN
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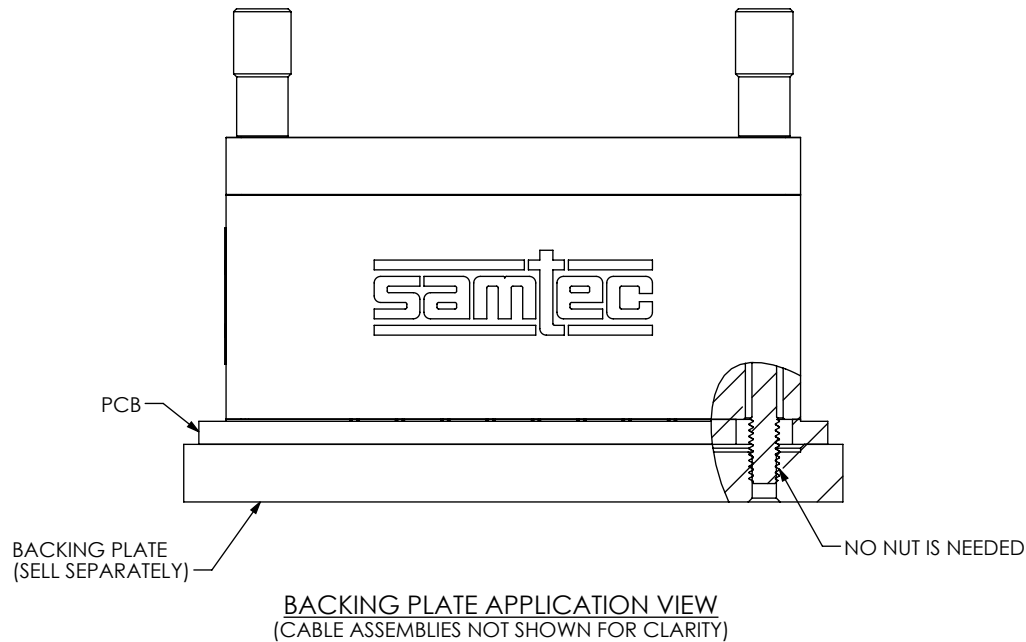
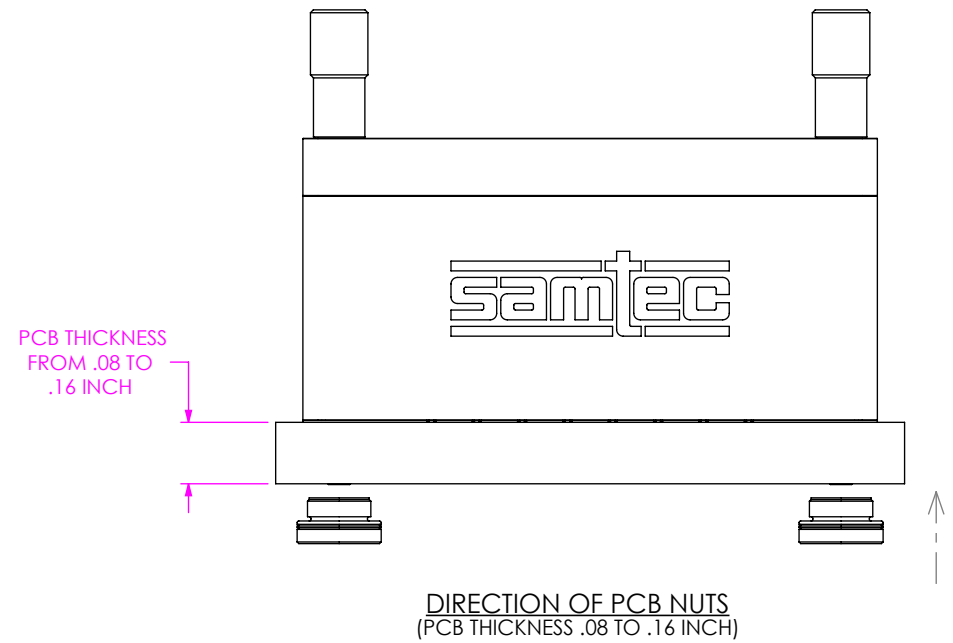
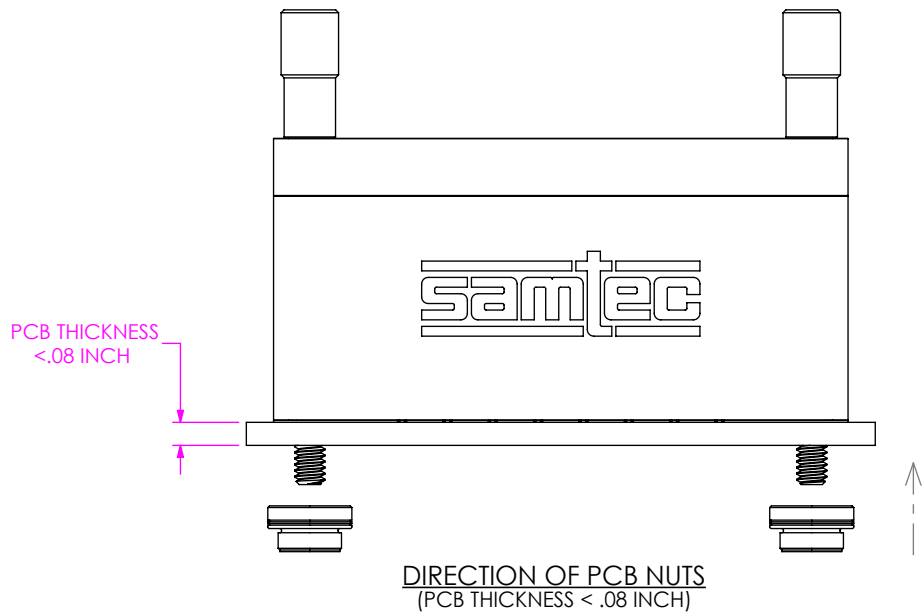
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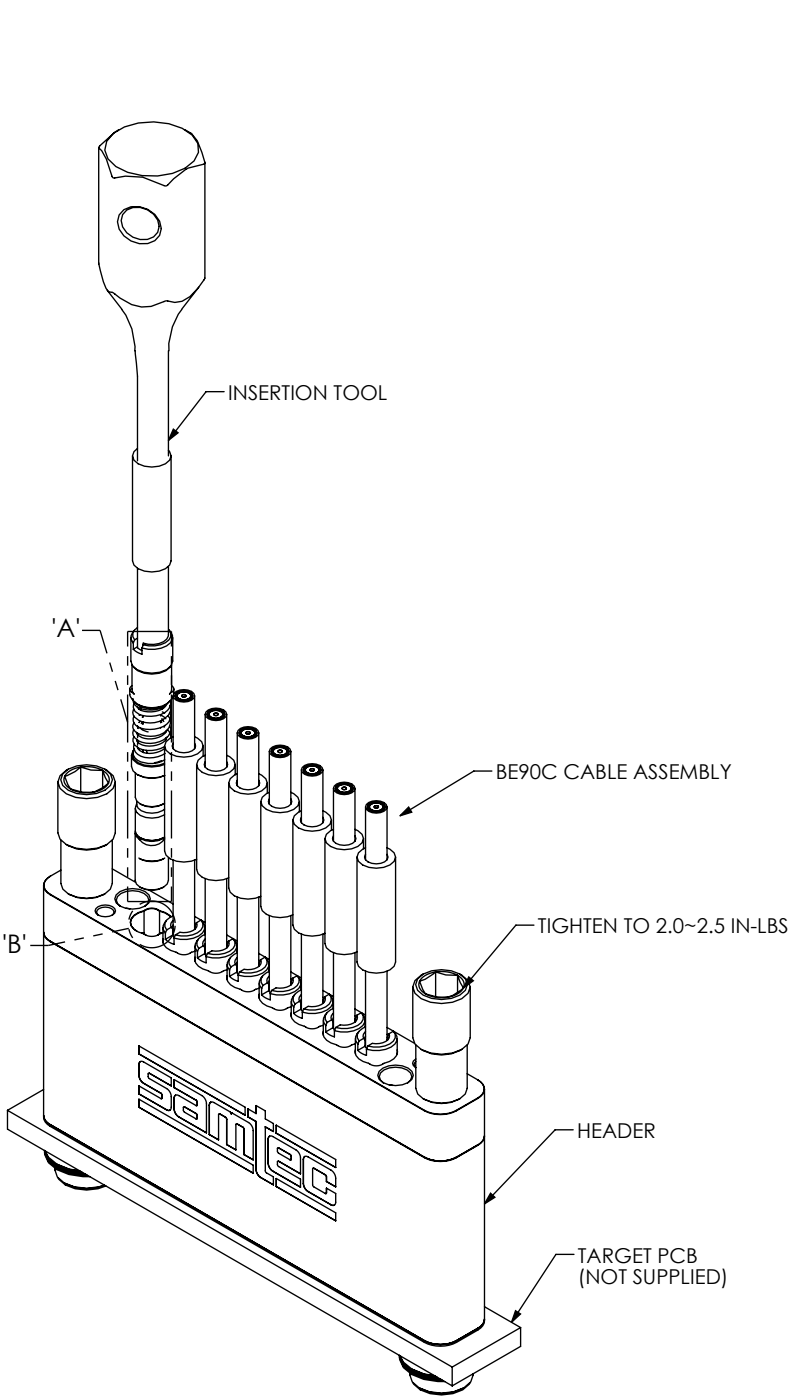
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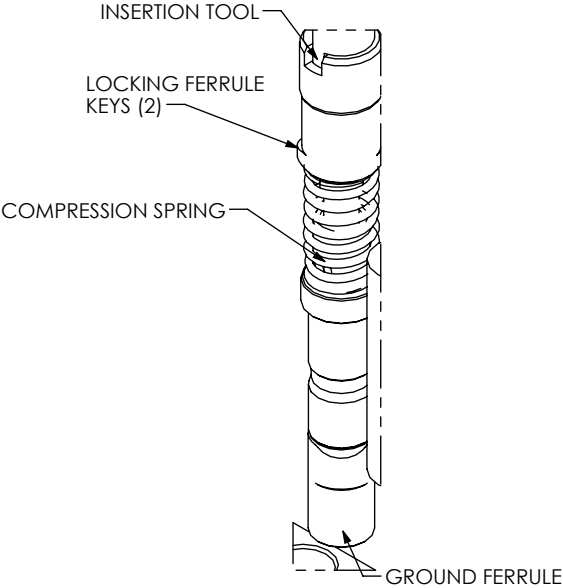
DESCRIPTION: BE90A GANGED ASSEMBLY

DWG. NO. BE90A-X-XXXX-X-1-XX-XXXX

BY: EVE L 03/16/2023 SHEET 6 OF 7



APPLICATION VIEW FOR CABLE ASSEMBLY



DETAIL 'A'
SCALE 4 : 1



DETAIL 'B'
SCALE 6 : 1

CABLE INSTALLATION PROCEDURE:

INSURE LOCKING FERRULE KEYS (SEE DETAIL 'A') ALIGN WITH KEYWAY FEATURES IN THE CONNECTOR BODY (SEE DETAIL 'B'). PUSH DOWN ON THE LOCKING FERRULE (WITH MINIMAL FORCE) USING THE INSERTION TOOL. TWIST THE INSERTION TOOL CLOCKWISE (IT SHOULD TURN FREELY)

LOCK CHAMBER, LOCATED INSIDE THE CONNECTOR BODY, BY WAY OF THE COMPRESSION SPRING. REPEAT THIS PROCESS WITH REMAINING CABLE ASSEMBLIES .

REVERSE ABOVE PROCEDURE TO DISASSEMBLE.

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	DWG. NO. BE90A-X-XXXX-X-1-XX-XXXX BY: EVE L 03/16/2023 SHEET 7 OF 7