

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

DO NOT  
SCALE FROM  
THIS PRINT

(Pb) THIS PRODUCT MANUFACTURED  
WITH LEAD-FREE PROCESSING

BE70C-X-XXXX-X-XX-XXXX

TRANSMISSION TYPE

-M: MICROSTRIP  
-S: STRIPLINE

END 2 CONNECTOR  
(SEE TABLE 2)

PHASE MATCHING SPEC (RANGE)

-2: 2 PICO-SECOND  
-5: 5 PICO-SECONDS  
-N: NO PHASE MATCHING

OVERALL ASSEMBLY LENGTH (OAL)  
XXXX (MILLIMETERS)  
(0152 MIN)  
(SEE NOTE 5)

No. OF PHASE MATCHED CABLES

01: (1 CABLE FOR THIS PART NUMBER)  
 02: (2 CABLES FOR THIS PART NUMBER)  
 04: (4 CABLES FOR THIS PART NUMBER)  
 06: (6 CABLES FOR THIS PART NUMBER)  
 08: (8 CABLES FOR THIS PART NUMBER)

( = ONLY AVAILABLE WITH -N OPTION)  
( = NOT AVAILABLE WITH -N OPTION)

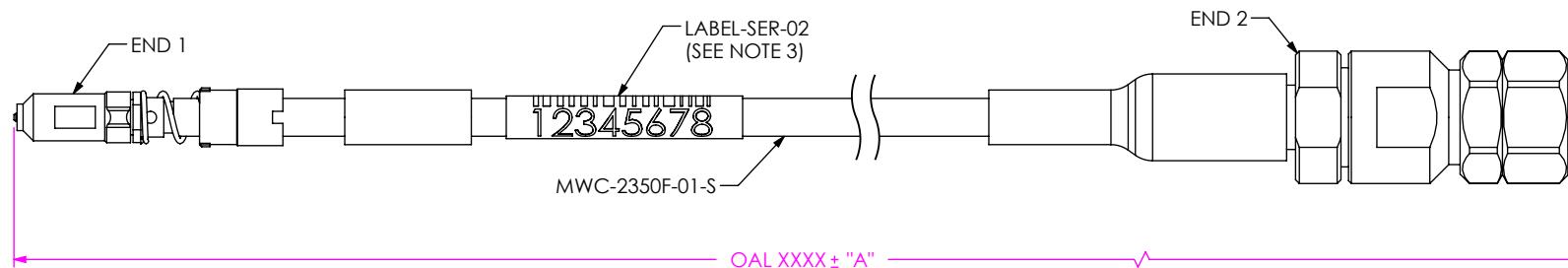


FIG 1  
BE70C-S-18SP-X-02-XXXX SHOWN  
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1

OVERALL LENGTH	"A"
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 [19.72-39.37]	+10.0 [.39] / -0.0 [.00]

TABLE 2

END OPTION	SERIES	GENDER	FINISH			SUBTRACTOR "B"	CONNECTOR KIT P/N	FIGURE
			CENTER CONTACT	OUTER CONTACT	CABLE BODY			
-18SP	1.85 MM	PLUG	50 $\mu$ GOLD	PASSIVATED	PASSIVATED	8.80 [.346]	PRF18-P-C-EP-086-SS	SHT 3, FIG 4
-18SJ	1.85 MM	JACK	50 $\mu$ GOLD	PASSIVATED	PASSIVATED	9.70 [.382]	PRF18-J-C-EP-086-SS	SHT 3, FIG 5

## NOTES:

1. CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
2. CABLE ASSEMBLY TO HAVE PROTECTIVE CAP ASSEMBLED ON EACH END AND TO BE INDIVIDUALLY PACKAGED IN ESD BAG.
3. ASSEMBLY TO BE 100% TESTED FOR RETURN LOSS AND INSERTION LOSS, LABEL EACH INDIVIDUAL CABLE ASSEMBLY WITH 1 LABEL-SER-02. RETURN LOSS SPECIFICATION IS EQUAL TO THE HIGHEST END OPTION LIMIT.
4. PARTS TO BE PHASE MATCHED PER CO-HD-WI-3062-M.
5. CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. DATA.
6. NOTE DELETED.

PROPRIETARY NOTE  
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.

MATERIAL: DO NOT SCALE DRAWING  
CENTER CONTACTS: COPPER ALLOY SHEET SCALE: 2:1  
OUT CONTACTS:  
-END 1: BRASS ALLOY  
-18SP/-18SJ: STAINLESS STEEL  
INSULATORS:  
-END 1: VIRGIN PTFE FLUOROCARBON  
-18SP/-18SJ: ULTEM

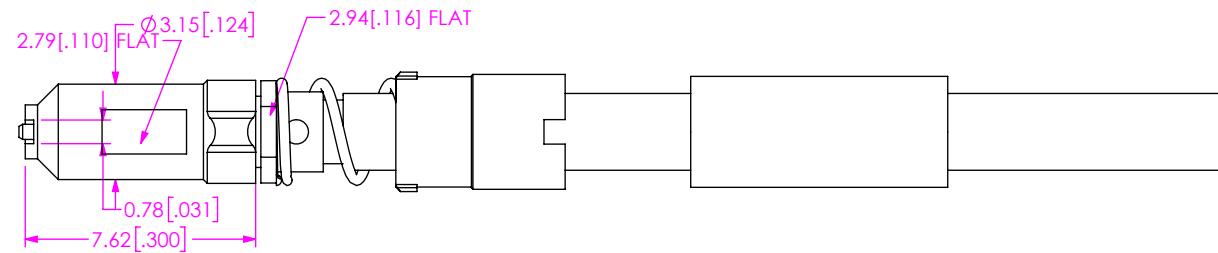
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

**samtec**

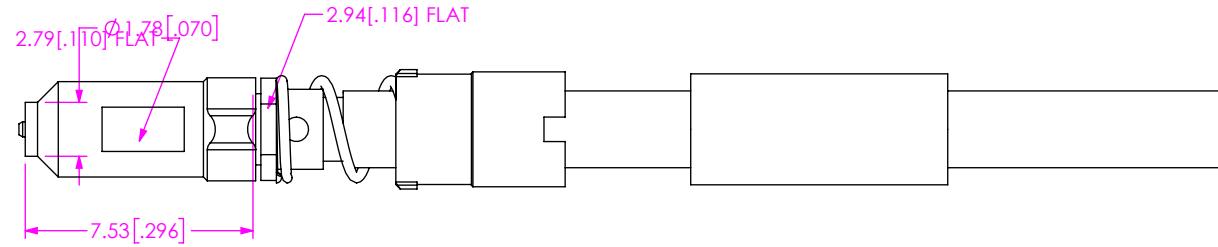
DESCRIPTION: GEN 3 BULLSEYE PROBE CABLE ASSEMBLY

DWG. NO. BE70C-X-XXXX-X-XX-XXXX

BY: SAMUEL C 12/31/2019 SHEET 1 OF 3



**FIG 2**  
-END 1 SHOWN  
(FOR -M TRANSMISSION TYPE)  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



**FIG 3**  
-END 1 SHOWN  
(FOR -S TRANSMISSION TYPE)  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

\* PROPRIETARY NOTE \*  
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.

SHEET SCALE: 4:1  
DO NOT SCALE DRAWING

**Samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION:  
GEN 3 BULLSEYE PROBE CABLE ASSEMBLY

DWG. NO.

**BE70C-X-XXXX-X-XX-XXXX**

BY: SAMUEL C 12/31/2019 SHEET 2 OF 3

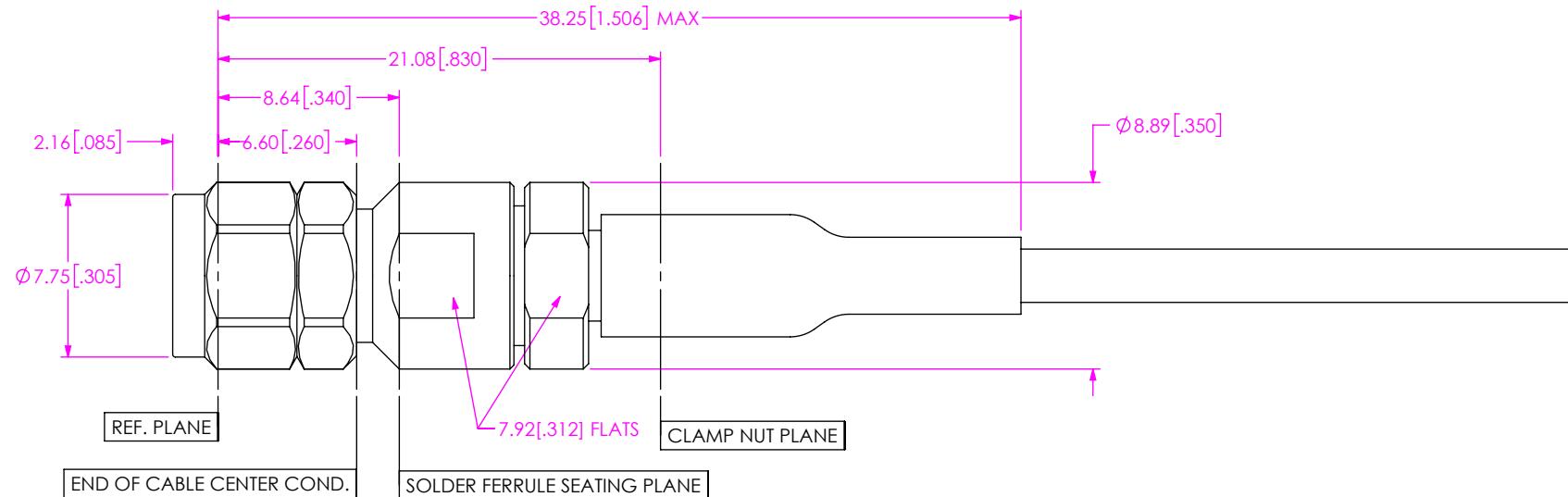


FIG 4  
-18SP SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

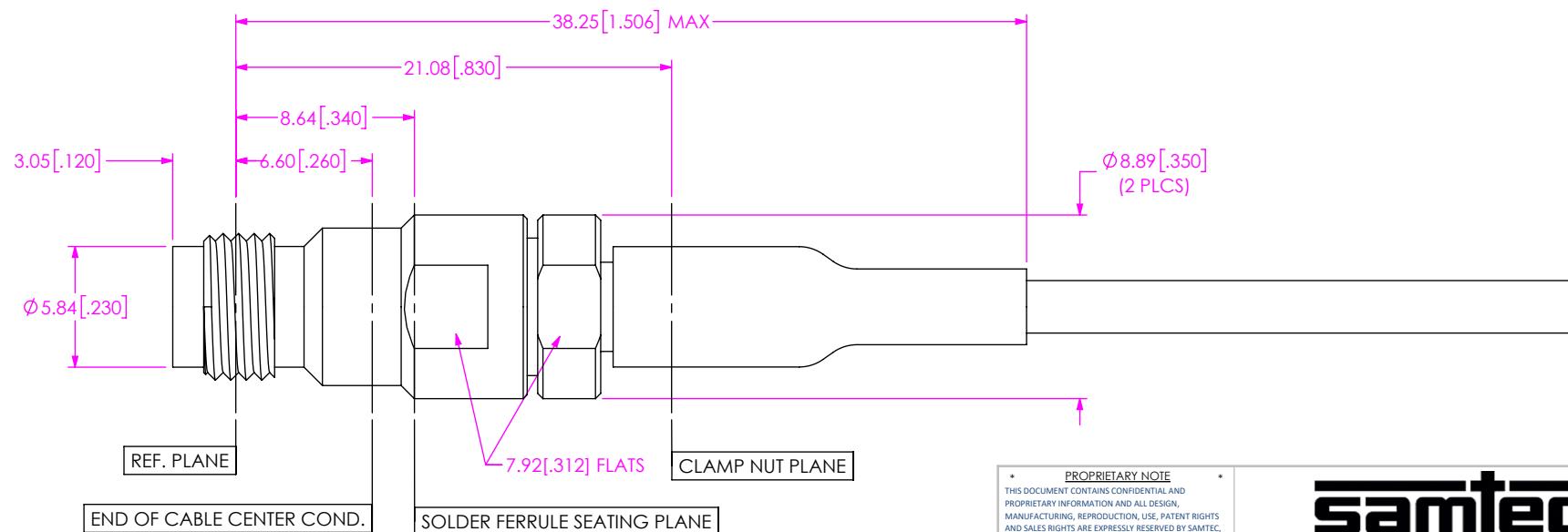


FIG 5  
-18SJ SHOWN  
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

\* PROPRIETARY NOTE \*  
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 IN 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.

SHEET SCALE: 3:1  
DO NOT SCALE DRAWING

**Samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION:  
GEN 3 BULLSEYE PROBE CABLE ASSEMBLY  
DWG. NO.  
BE70C-X-XXXX-X-XX-XXXX  
BY: SAMUEL C 12/31/2019 SHEET 3 OF 3