

# REVISION AN

DO NOT  
SCALE FROM  
THIS PRINT

## NOTES:

1. HIDDEN LINES ARE USED TO SHOW POLARIZATION WHEN USING -N OPTION.
2.  $\odot$  REPRESENTS A CRITICAL DIMENSION.
3. FFSD CABLE ASSEMBLIES ARE LEAD FREE.
4. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
5. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 630V.  $\odot$
6. STRAIN RELIEF TO WITHSTAND 5LB[22N] STRAIGHT PULL.
7. NOTE DELETED.
8. WHEN CUTTING CABLE TO LENGTH, CONDUCTORS SHOULD NOT EXTEND PAST THE CABLE INSULATION, EXTENDING LESS THAN 25% OF CABLE THICKNESS ON CONSECUTIVE AND LESS THAN 50% OF CABLE THICKNESS ON NON-CONSECUTIVE STRANDS IS CONSIDERED A PROCESS INDICATOR.
9. REFERENCE FFSD-XX-XX-X-N-XXX FOR CONNECTOR ASSEMBLY DIMENSIONS AND ITS REQUIREMENTS.
10. COLORED WIRE MUST MATCH FIRST POSITION INDICATOR ON THE FIRST CONNECTOR FOR ALL OPTIONS WITH THE EXCEPTION OF -RW.
11. FOR LENGTHS LESS THAN 12.5", TOLERANCE SHALL BE +/- .125, ALL OTHER LENGTHS SHALL BE +/- 1%.

FFSD-XX-X-XX.XX-01-X-X-XXX

No OF POSITIONS  
-02 THRU -25  
(PER ROW)

END ASSEMBLY  
-S: SINGLE END  
-D: DOUBLE END

ASSEMBLY LENGTH

-D"XX", -R, -M & -O OPTION: 2.00[50.8] MINIMUM  
ALL OTHER OPTION: 1.00[25.4] MINIMUM

LEAD STYLE

PLATING OPTIONS

- LEAVE BLANK FOR STANDARD, USE C-67-L  
-S: USE C-67-S  
-F: USE C-67-F

## OPTION

-RW: REVERSE WIRING  
(NOT AVAILABLE WITH -RN1 OR -RN2)  
-D"XX": DAISY CHAIN (MINIMUM 2.00[50.8],  
1.00[25.4] INCREMENTS)  
-R: REVERSED  
(NOT AVAILABLE WITH -M OR -O)  
(MINIMUM 2.00[50.8], 1.00[25.4] INCREMENTS)  
-RN1: REVERSE POLARIZATION NOTCH  
(NOT AVAILABLE WITH -RW OR -RN2)  
-RN2: REVERSE POLARIZATION NOTCH  
(NOT AVAILABLE WITH -RW OR -RN1)  
-M: MIDDLE REVERSE  
(NOT AVAILABLE WITH -R OR -O)  
(MINIMUM 2.00[50.8], 1.00[25.4] INCREMENTS)  
-O: OUTSIDE REVERSE  
(NOT AVAILABLE WITH -R OR -M)  
(MINIMUM 2.00[50.8], 1.00[25.4] INCREMENTS)  
-SR: STRAIN RELIEF  
(NOT AVAILABLE WITH -O, -M,  
-R, OR -DXX)  
(SOLD AS ASSEMBLIES ONLY)

## STANDARD POLARIZATION NOTCH

-N: POLARIZATION NOTCH  
(NOT AVAILABLE IN -02 THRU -04)  
(LEAVE BLANK FOR -02, -03, -04)

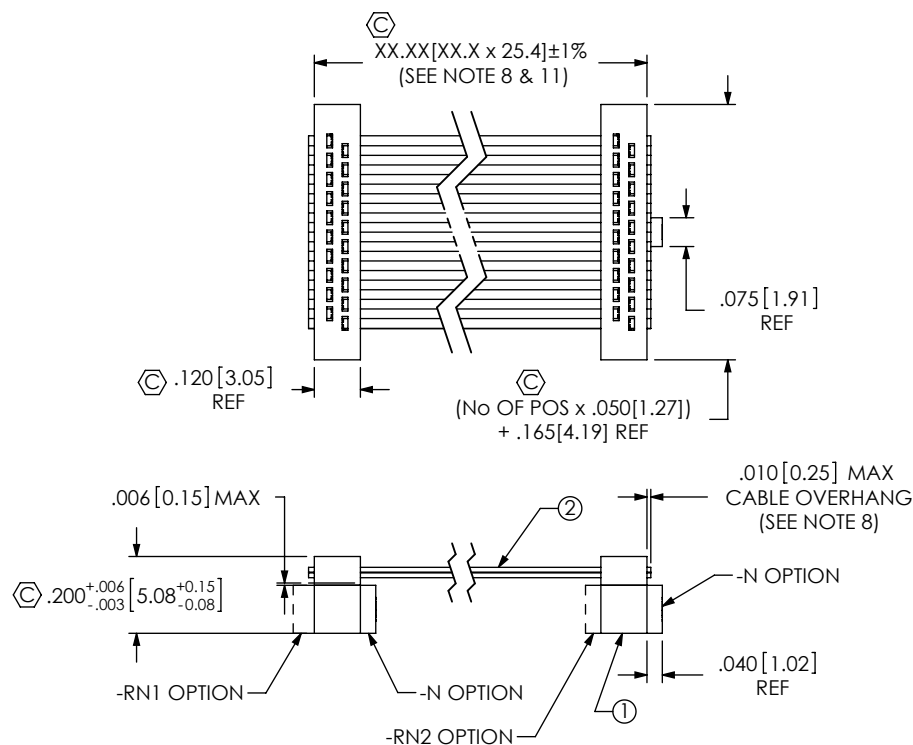


FIG 1  
(FFSD-10-D-XX.XX-01-X-N SHOWN)

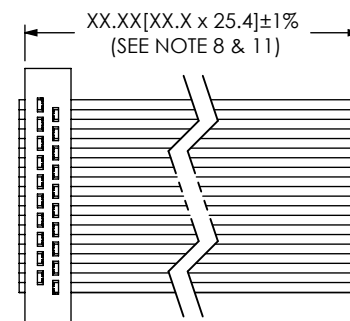
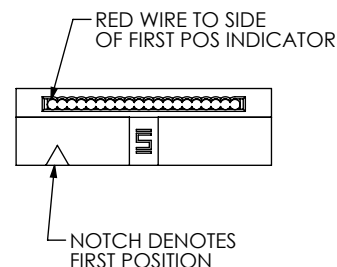


FIG 2  
(FFSD-10-S-XX.XX-01-X-N SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

RED WIRE TO OPPOSITE  
SIDE OF FIRST POS. INDICATOR

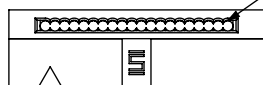


FIG 11  
(FFSD-10-X-XX.XX-01-X-N-RW SHOWN)

| TABLE 1 |                      |
|---------|----------------------|
| ITEM #  | PART                 |
| 1       | FFSD-XX-01-X-N-XX    |
| 2       | CB-XX-30-7/38-025-GR |
| 3       | FFSD-XX-01-X-N-SR1   |
| 4       | FFSR-XX-01           |
| 5       | FFSD-XX-01-X-N-SR2   |
| 6       | FFSR-XX-02           |

F:\DWG\MISC\MKTG\FFSD-XX-X-XX.XX-01-X-X-XXX-MKT.SLDDRW

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES  
.XX: ±.01 [.3] 2°  
.XXX: ±.005 [.13]  
.XXXX: ±.0020 [.051]

## PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION  
CONFIDENTIAL AND PROPRIETARY TO  
SAMTEC, INC. AND SHALL NOT BE REPRODUCED  
OR TRANSFERRED TO OTHER DOCUMENTS OR  
DISCLOSED TO OTHERS OR USED FOR ANY  
PURPOSE OTHER THAN THAT WHICH IT WAS  
OBTAINED WITHOUT THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATORS: PBT UL94V-0, COLOR: BLACK  
CONTACT: BeCu  
WIRE: 30 AWG, 7/38, TINNED, STRANDED WITH  
GRAY PVC INSULATOR  
PLATING: .000010 GOLD OVER .000050 NICKEL  
REMAINDER: .000200 REF TIN OVER .000050 NICKEL

**samtec**

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

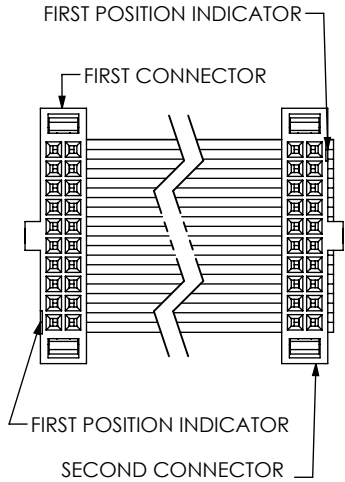
DESCRIPTION: .050 x .050 DOUBLE ROW FEMALE IDC ASSEMBLY

DWG. NO.  
FFSD-XX-X-XX.XX-01-X-X-XXX

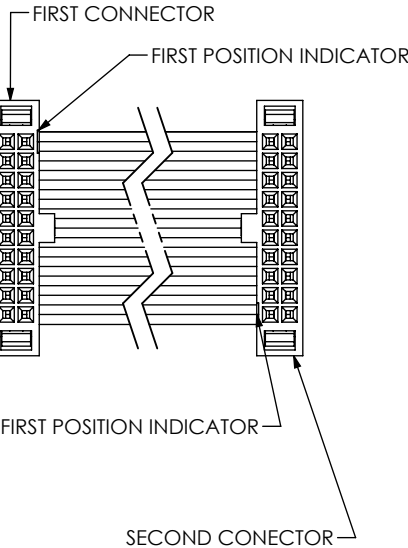
BY: T NEWTON 02/15/2008 SHEET 1 OF 4

FIG 3

(FFSD-10-D-XX.XX-01-X-N-RN1 SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



(FFSD-10-D-XX.XX-01-X-N-RN2 SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



NOTE:  
-RN1 = REVERSE NOTCH ON 1ST CONNECTOR ONLY  
( NOT AVAILABLE WITH -R OPTION)  
-RN2 = REVERSE NOTCH ON 2ND CONNECTOR ONLY  
(NOT AVAILABLE WITH -R OPTION)  
  
(REVERSE NOTCH NOT AVAILABLE WITH -RW OR ANY  
DAISY CHAIN OPTIONS)

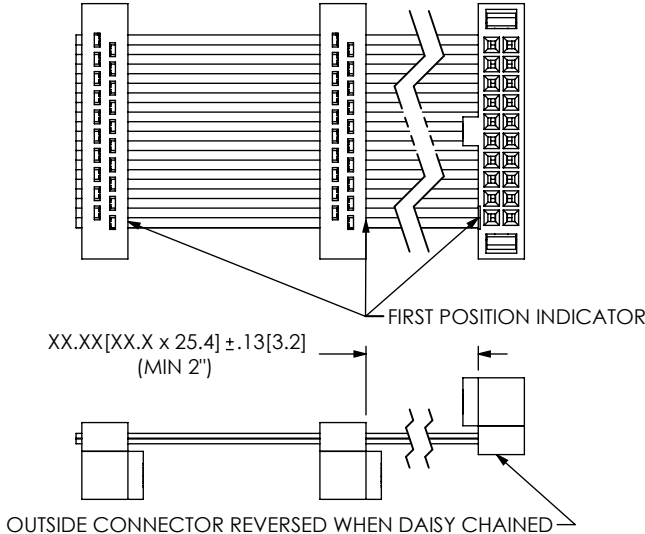


FIG 4

(FFSD-10-D-XX.XX-01-X-N-DXX-O SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(2.00[50.8] MINIMUM, 1.00[25.4] INCREMENTS)

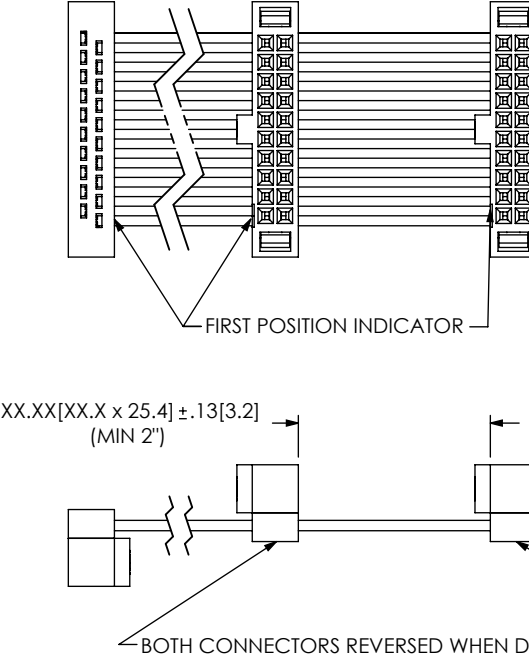


FIG 6

(FFSD-10-D-XX.XX-01-X-N-DXX-R SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(NOT AVAILABLE WITH -RN1 OR -RN2 OPTION)  
(2.00[50.8] MINIMUM, 1.00[25.4] INCREMENTS)

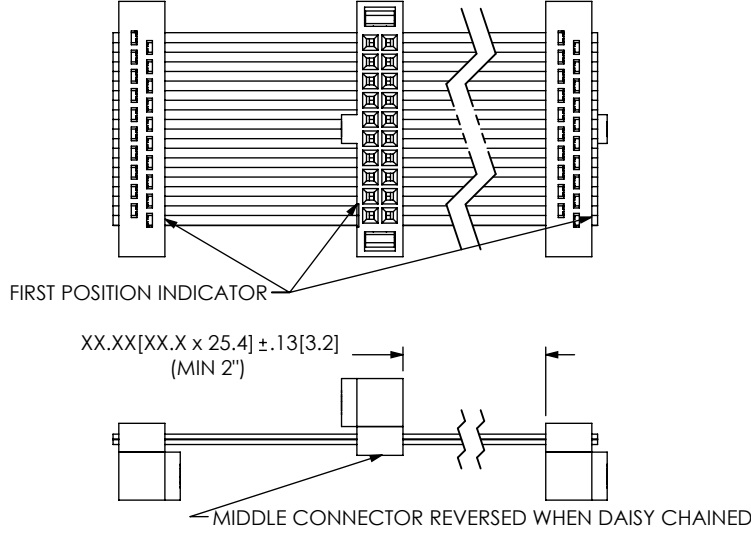


FIG 5

(FFSD-10-D-XX.XX-01-X-N-DXX-M SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(2.00[50.8] MINIMUM, 1.00[25.4] INCREMENTS)

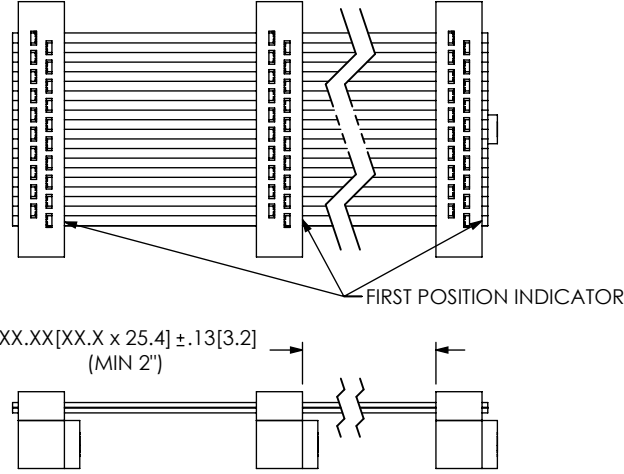


FIG 7

(FFSD-10-D-XX.XX-01-X-N-DXX SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(2.00[50.8] MINIMUM, 1.00[25.4] INCREMENTS)

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION  
CONFIDENTIAL AND PROPRIETARY TO  
SAMTEC, INC. AND SHALL NOT BE REPRODUCED  
OR TRANSFERRED TO OTHER DOCUMENTS OR  
DISCLOSED TO OTHERS OR USED FOR ANY  
PURPOSE OTHER THAN THAT WHICH IT WAS  
OBTAINED WITHOUT THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2:1



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

DESCRIPTION:  
.050 x .050 DOUBLE ROW FEMALE IDC ASSEMBLY

DWG. NO.  
FFSD-XX-X-XX.XX-01-X-X-XXX

BY: T NEWTON 02/15/2008 SHEET 2 OF 4

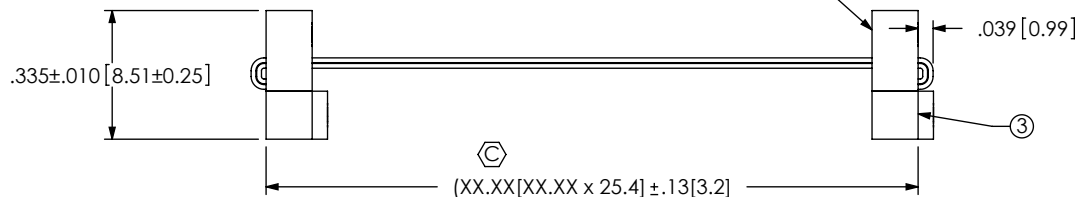
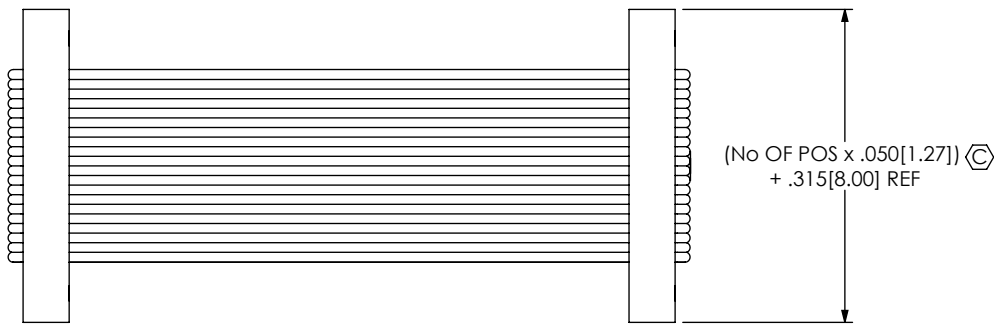
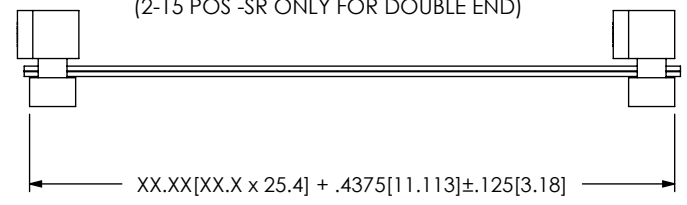
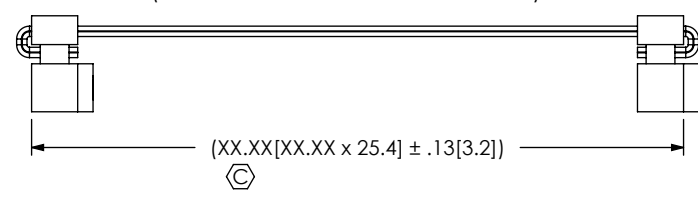


FIG 9  
STRAIN RELIEF OPTION (POS 2-15 ONLY)  
(FFSD-10-D-XX.XX-01-X-N-SR SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

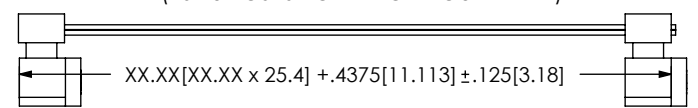
IN-PROCESS 1  
(2-15 POS -SR ONLY FOR DOUBLE END)



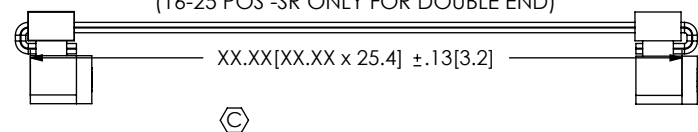
IN-PROCESS 2  
(2-15 POS -SR ONLY FOR DOUBLE END)



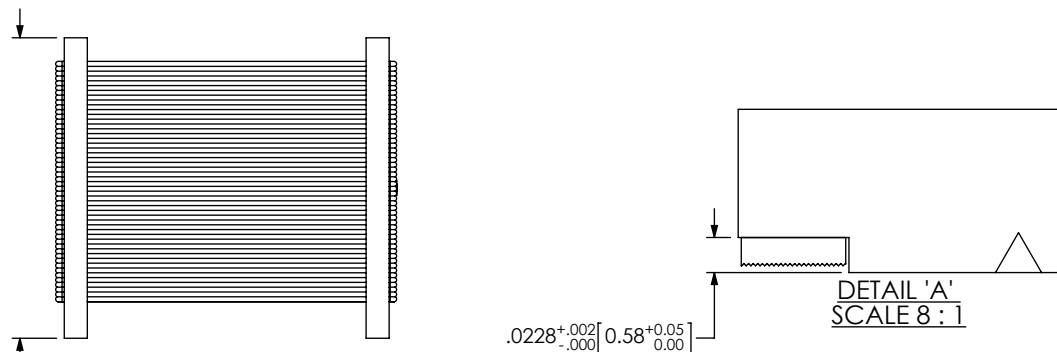
IN-PROCESS 1  
(16-25 POS -SR ONLY FOR DOUBLE END)



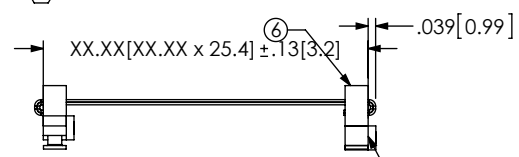
IN-PROCESS 2  
(16-25 POS -SR ONLY FOR DOUBLE END)



IN-PROCESS 3  
(16-25 POS -SR ONLY FOR DOUBLE END)



No OF POS x .050[1.27] + .315[8.00] REF



.0228<sup>+.002</sup><sub>-.000</sub> [0.58<sup>+0.05</sup><sub>0.00</sub>]

DETAIL 'A'  
SCALE 8 : 1

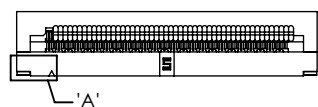


FIG 10  
STRAIN RELIEF OPTION (POS 16-25 ONLY)  
(FFSD-25-D-XX.XX-01-X-N-SR SHOWN)  
(SAME AS FIG 2, DIFFERENT AS SHOWN)  
SCALE 1 : 1

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION  
CONFIDENTIAL AND PROPRIETARY TO  
SAMTEC, INC. AND SHALL NOT BE REPRODUCED  
OR TRANSFERRED TO OTHER DOCUMENTS OR  
DISCLOSED TO OTHERS OR USED FOR ANY  
PURPOSE OTHER THAN THAT WHICH IT WAS  
OBTAINED WITHOUT THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2:1



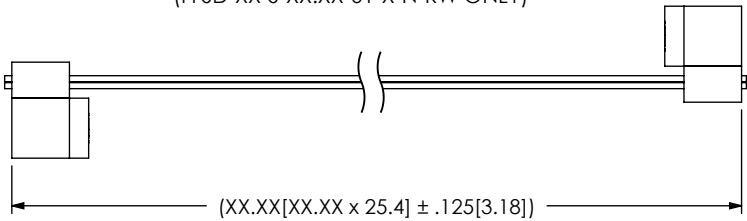
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
.050 x .050 DOUBLE ROW FEMALE IDC ASSEMBLY

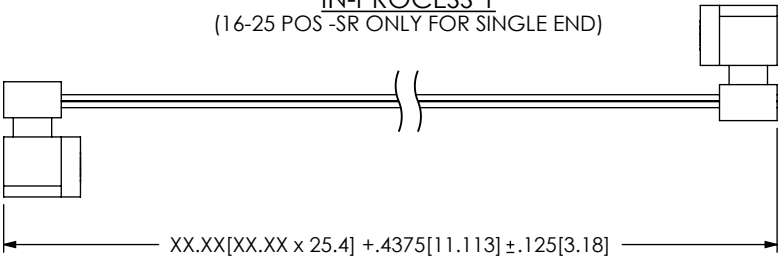
DWG. NO.  
FFSD-XX-X-XX.XX-01-X-X-XXX

BY: T NEWTON 02/15/2008 SHEET 3 OF 4

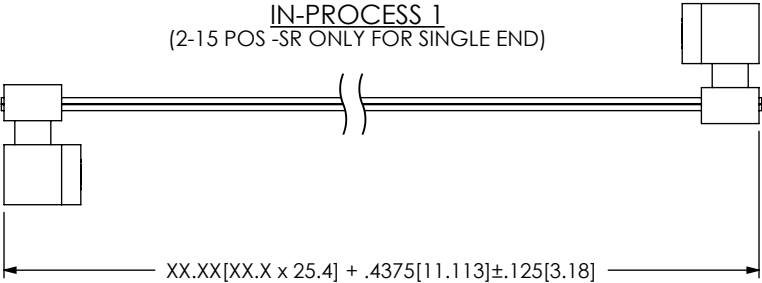
IN-PROCESS 1  
(FFSD-XX-S-XX.XX-01-X-N-RW ONLY)



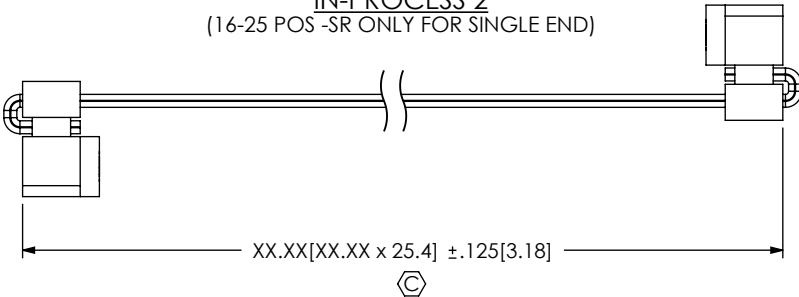
IN-PROCESS 1  
(16-25 POS -SR ONLY FOR SINGLE END)



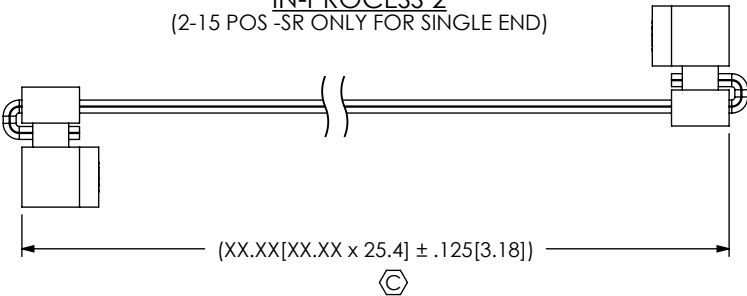
IN-PROCESS 1  
(2-15 POS -SR ONLY FOR SINGLE END)



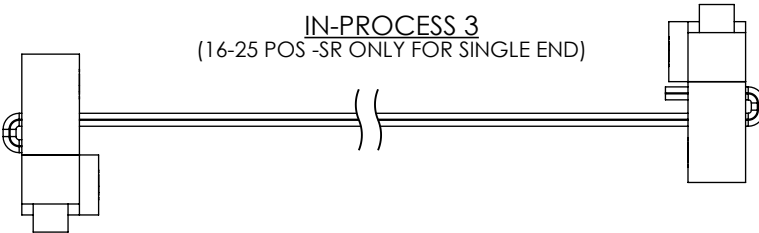
IN-PROCESS 2  
(16-25 POS -SR ONLY FOR SINGLE END)



IN-PROCESS 2  
(2-15 POS -SR ONLY FOR SINGLE END)



IN-PROCESS 3  
(16-25 POS -SR ONLY FOR SINGLE END)



PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION  
CONFIDENTIAL AND PROPRIETARY TO  
SAMTEC, INC. AND SHALL NOT BE REPRODUCED  
OR TRANSFERRED TO OTHER DOCUMENTS OR  
DISCLOSED TO OTHERS OR USED FOR ANY  
PURPOSE OTHER THAN THAT WHICH IT WAS  
OBTAINED WITHOUT THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2.5:1

**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:  
.050 x .050 DOUBLE ROW FEMALE IDC ASSEMBLY

DWG. NO.  
FFSD-XX-X-XX.XX-01-X-X-XXX

BY: T NEWTON 02/15/2008 SHEET 4 OF 4