

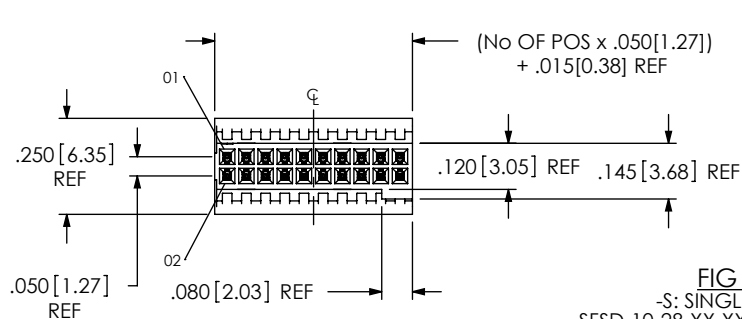
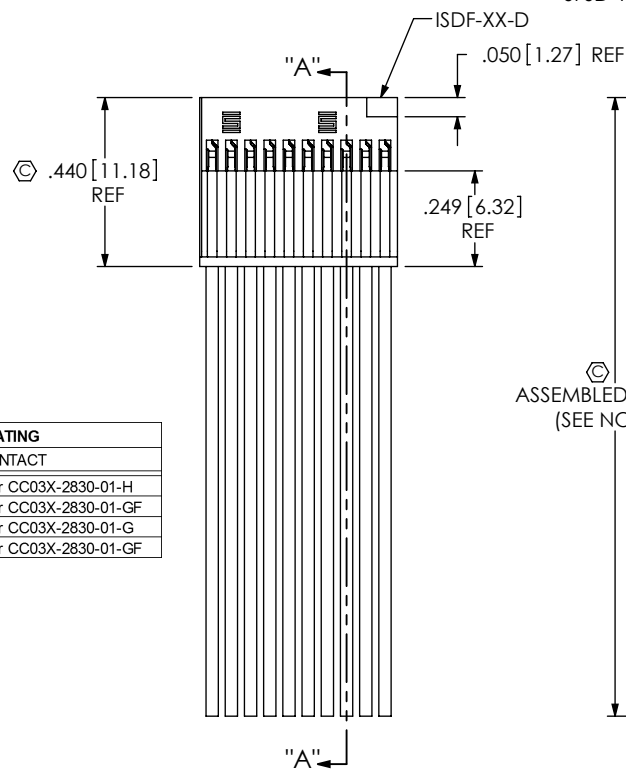
DO NOT  
SCALE FROM  
THIS PRINT

FIG 1  
-S: SINGLE END  
SFSD-10-28-XX-XX.XX-S SHOWN



ASSEMBLED LENGTH:  
(SEE NOTE 8)

SECTION "A"- "A"

DWCX-XX-XX-300

POLARIZATION KEY

SFSDX-XX-XXX-XX-XX.XX-XX-XXX

FEP CABLE OPTION  
-T: FEP (LEAVE BLANK FOR  
STANDARD PVC INSULATION)

No OF POSITIONS  
-02 THRU -50  
(PER ROW)

WIRE GAUGE (AWG)  
-28, -30

COLOR CODE:

LEAVE BLANK FOR ALL BLACK WIRE  
C: COLOR CODED WIRE  
(SEE TABLE 4, SHT 3)  
(NOT AVAILABLE WITH FEP OPTION)

PLATING SPECIFICATION

-H: 30μ" HEAVY GOLD IN CONTACT AREA,  
3μ" GOLD ON TAIL  
-G: 10μ" LIGHT GOLD IN CONTACT AREA,  
3μ" GOLD ON TAIL  
-F: 3μ" FLASH GOLD IN CONTACT AREA,  
3μ" GOLD ON TAIL  
-GF: 3μ" FLASH SELECTIVE IN CONTACT AREA,  
3μ" GOLD ON TAIL  
(ONLY AVAILABLE TO EXISTING  
CUSTOMERS; SEE -F PLATING)  
(SEE TABLE 3, SHEET 1)

ASSEMBLED LENGTH

SPECIFY IN INCHES  
(SINGLE END: 03.00 INCH [76.2mm]  
MINIMUM,  
DOUBLE END: 03.25 INCH [82.6mm]  
MINIMUM)

-NXX OPTION (END 2)  
(ONLY AVAILABLE WITH -D, -DL, -DR & -DS)  
-NUS: NOTCH UP, STRAIGHT  
(PIN 1 TO PIN N-1)  
-NDS: NOTCH DOWN, STRAIGHT  
(PIN 1 TO PIN 2)  
-NXX: NOTCH UP, CROSSED  
(PIN 1 TO PIN N)  
-NDX: NOTCH DOWN, CROSSED  
(PIN 1 TO PIN 1)

END OPTION  
(END OPTION COMBINATIONS NOT AVAILABLE)

-S: SINGLE END  
-D: DOUBLE END  
(MUST CHOOSE FROM -NXX OPTIONS)  
-SL: SINGLE ENDED WITH FRICTION LOCK  
(SEE SHEET 2, FIG 3) (ONLY AVAILABLE ON  
\*5,\*7, 10 THRU 50 POSITION)  
-DL: DOUBLE ENDED WITH FRICTION LOCK  
(SEE SHEET 2, FIG 4) (ONLY AVAILABLE  
ON \*5,\*7, 10 THRU 50 POSITION)  
(MUST CHOOSE FROM -NXX OPTIONS)  
-SR: SINGLE ENDED WITH RETENTION LATCH  
(SEE SHEET 3, FIG 5)  
(ONLY AVAILABLE ON -02 THRU -50 POS)  
-DR: DOUBLE ENDED WITH RETENTION LATCH  
(SEE SHEET 3, FIG 6)  
(ONLY AVAILABLE ON -02 THRU -50 POS)  
(MUST CHOOSE FROM -NXX OPTIONS)  
-SS: DUAL SCREW DOWN, SINGLE ENDED CABLE  
(SEE SHT 4, FIG 7) (SEE NOTE 15)  
(NOT AVAILABLE WITH OPTIONS SL, DL, SR & DR  
USES ISDF-XX-D-DS, CPS-RR-XX-XX-X & ACCRT-01)  
-DS: DUAL SCREW DOWN, DOUBLE ENDED CABLE  
(SEE SHT 4, FIG 8) (SEE NOTE 15)  
(NOT AVAILABLE WITH OPTIONS SL, DL, SR & DR  
USES ISDF-XX-D-DS, CPS-RR-XX-XX-X & ACCRT-01,  
MUST CHOOSE FROM NXXX OPTIONS)

(\* = NOT AVAILABLE WITH POLARIZATION KEY)

TABLE 3: PLATING	
PLATING	CONTACT
-H	C-203-2830-H or CC03X-2830-01-H
-GF	C-203-2830-GF or CC03X-2830-01-GF
-G	C-203-2830-G or CC03X-2830-01-G
-F	C-203-2830-GF or CC03X-2830-01-GF

## NOTES:

1.  $\phi$  REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PULLOUT FORCE: 3.0 LBS [13.3 N].
3. CONTACT MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS INTO PLACE.
4. ALL FINISHED GOODS ARE TO BE ELECTRICAL TESTED INCLUDING HI-POT TEST AT 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET STAMP ON THE BODY.
5. TINNED COPPER WIRE IS RoHS COMPLIANT.
6. PARTS TO BE LAYER PACKAGED.
7. NOTE DELETED.
8. FOR LENGTHS LESS THAN 12 in, TOLERANCE SHALL BE +/- .125. FOR OTHER LENGTHS, TOLERANCE SHALL BE +/- 2%.
9. NOTE DELETED.
10. REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING AND ITS REQUIREMENTS.
11. 3LB MIN WIRE CRIMP STRENGTH FOR -30 AWG AND 4.5LB MIN WIRE CRIMP STRENGTH FOR -28 AWG.
12. NOTE DELETED.
13. -TC TEFLON USE FOR DOUBLE ENDED ASSEMBLIES ONLY. ALL SINGLE ENDED ASSEMBLIES USE SILVER PLATED DWCT-XX-01.
14. CUT LENGTH IS ASSEMBLY LENGTH MINUS OVERALL LENGTH SUBTRACTOR.
15. THE PRODUCTS WITH OPTION -DS AND -SS SHOULD BE PACKAGED IN BUBBLE BAGS.

TABLE 1		
SERIES	WIRE GAUGE	CABLE
SFSD	28 AWG	DWC-28-XX-300
SFSD	30 AWG	DWC-30-XX-300
SFSDT (SEE NOTE 13)	28 AWG	DWCT-28-XX-TC
SFSDT (SEE NOTE 13)	30 AWG	DWCT-30-XX-TC

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 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 SHEET SCALE: 2:1  
INSULATOR: LCP UL 94V-0, COLOR: BLACK  
CONTACT: BeCu  
CABLE INSULATION: PVC OR FEP  
WIRE: DWC: TINNED COPPER.

F:\DWG\MISC\MKTG\SFSDX-XX-XXX-XX-XX.XX-XXX-MKT.SLDDRW

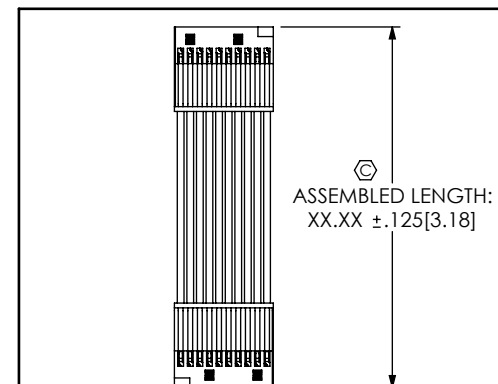


FIG 2

-D: DOUBLE END  
SFSD-10-28-XX-XX.XX-D-NUS SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

**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 [1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
SFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: BRATCHER 5/5/2005 SHEET 1 OF 5

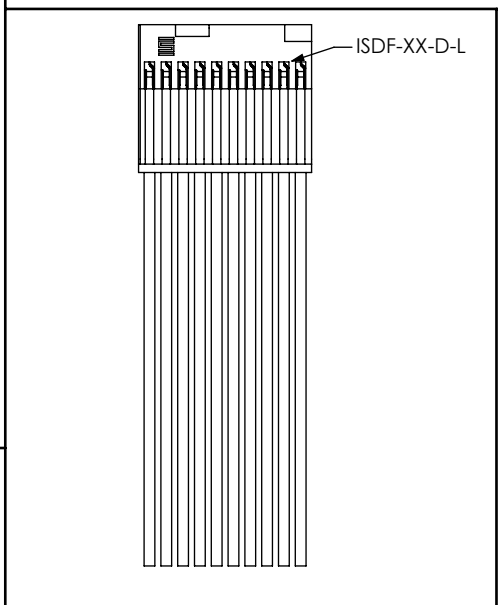
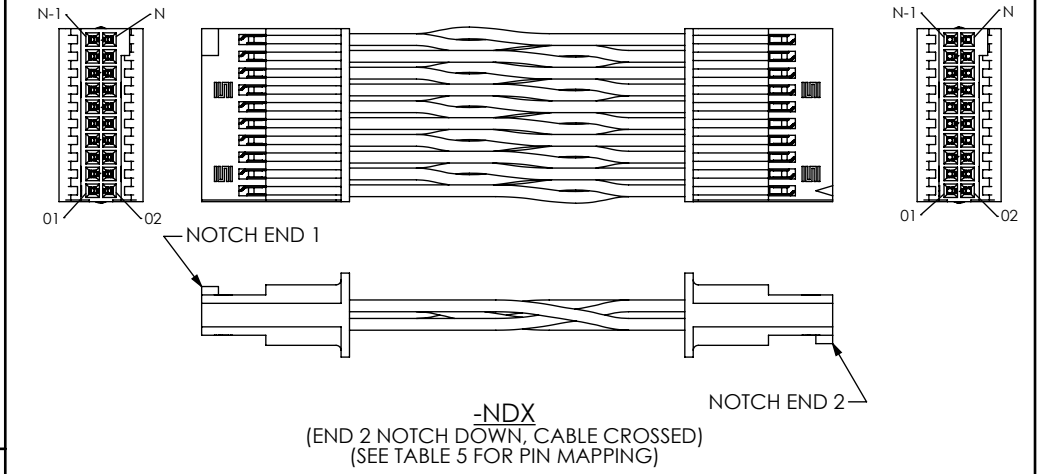
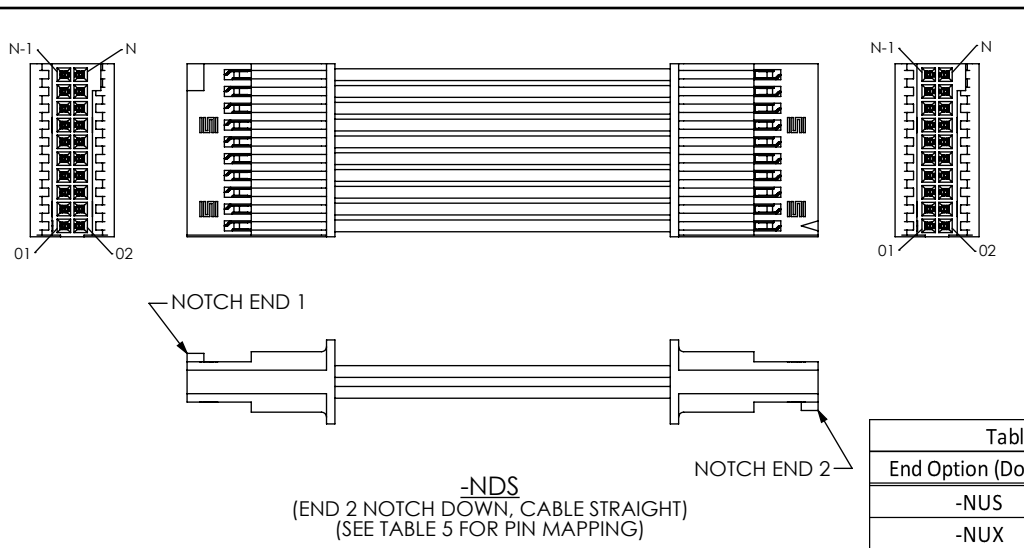
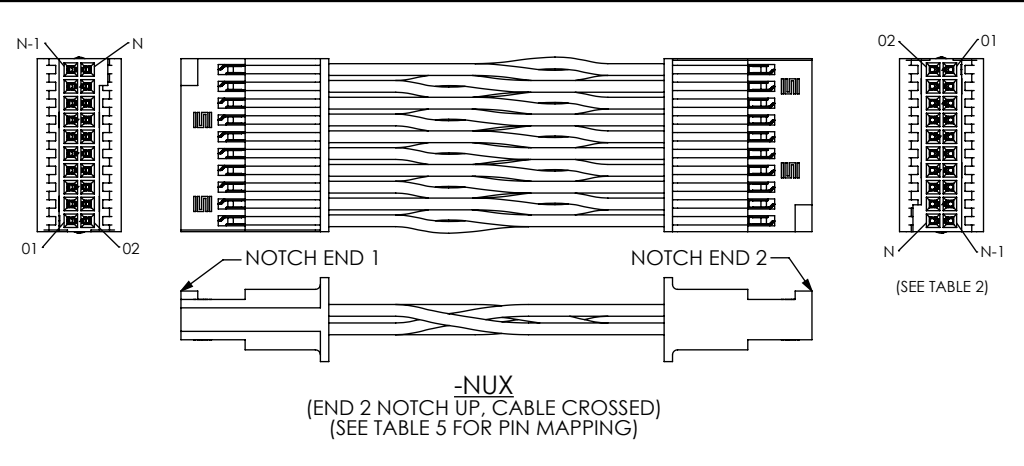
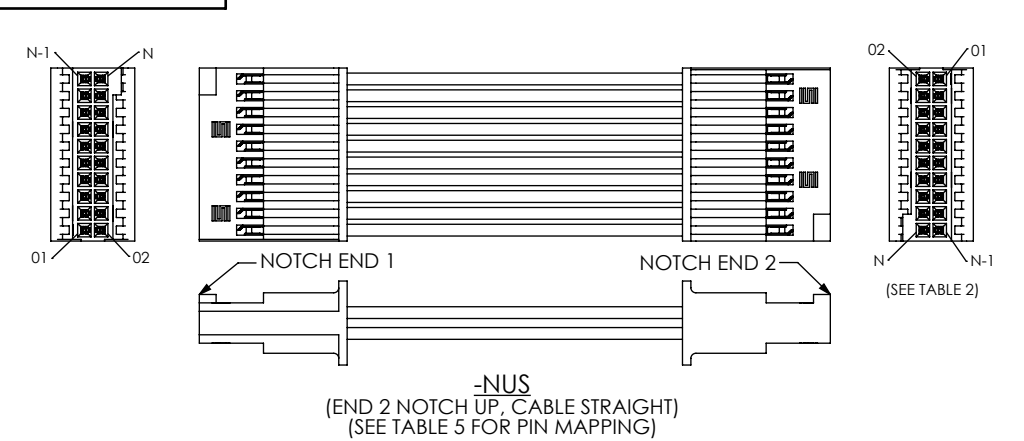


FIG 3  
-SL: SINGLE END FRICTION LOCK  
SFSDX-10-28-XX-XX.XX-SL SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

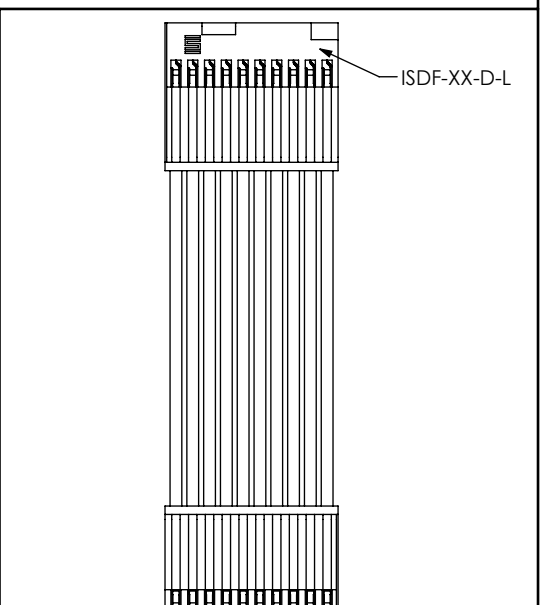


FIG 4  
-DL: DOUBLE END FRICTION LOCK  
SFSDX-10-28-XX-XX.XX-DL-NUS SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

Table 5- Pin Mapping		
End Option (Double)	END 1	END 2
-NUS	01	N-1
-NUX	01	N
NDS	01	2
-NDX	01	1

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.

DO NOT SCALE DRAWING

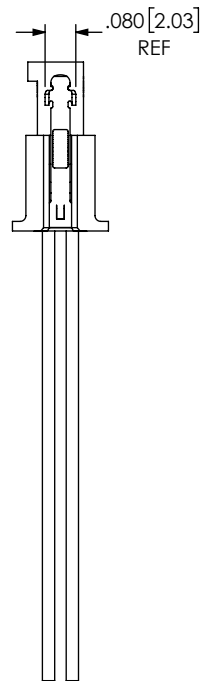
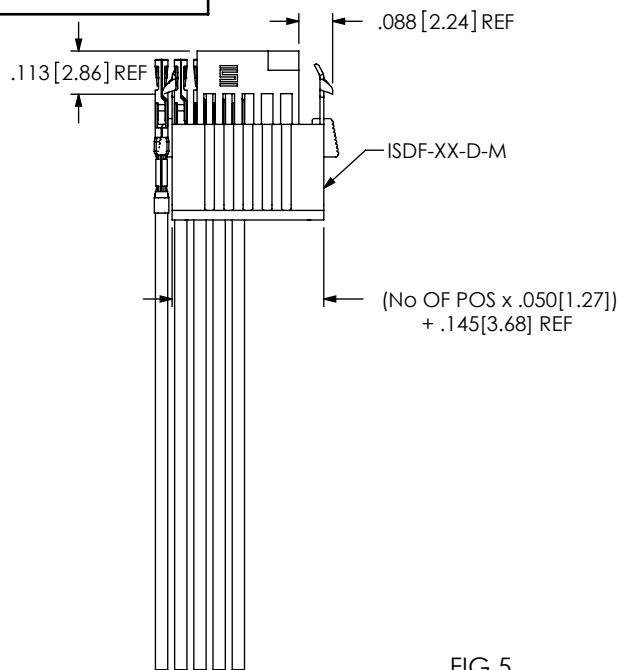
SHEET SCALE: 1:0.571429

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

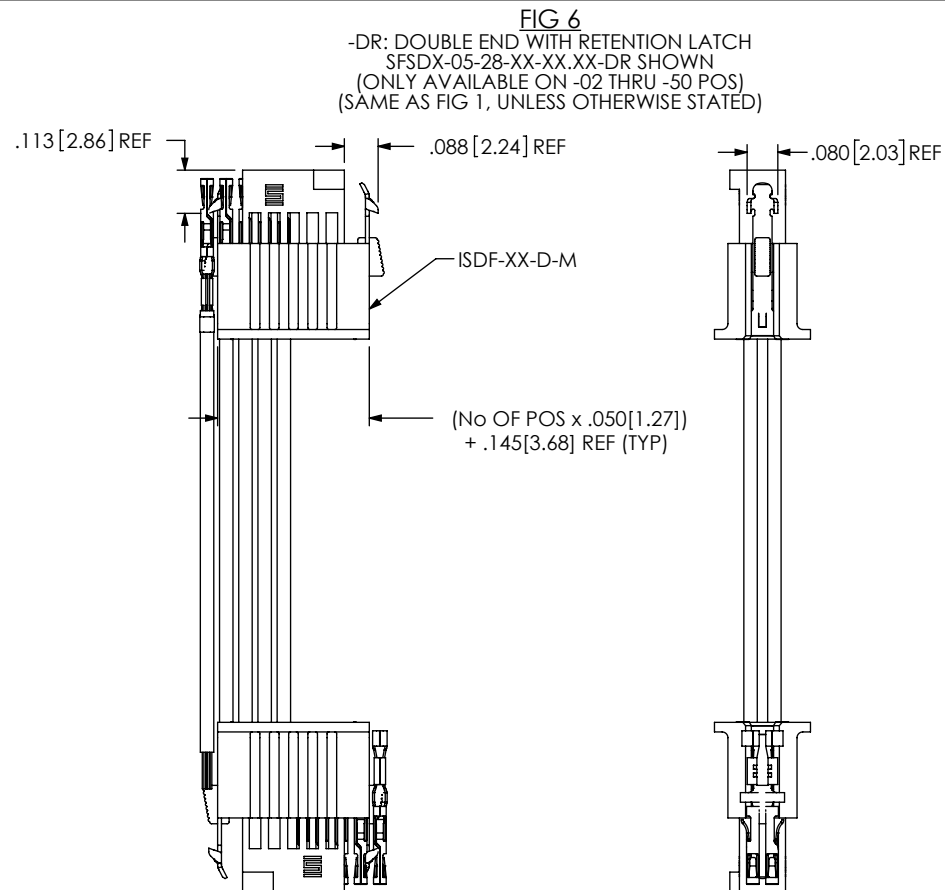
DESCRIPTION:  
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
SFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: BRATCHER 5/5/2005 SHEET 2 OF 5



**FIG 5**  
-SR: SINGLE END WITH RETENTION LATCH  
SFSDX-05-28-XX-XX.XX-SR SHOWN  
(ONLY AVAILABLE ON -02 THRU -50 POS)  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



**FIG 6**  
-DR: DOUBLE END WITH RETENTION LATCH  
SFSDX-05-28-XX-XX.XX-DR SHOWN  
(ONLY AVAILABLE ON -02 THRU -50 POS)  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

**TABLE 4**

**SFSD color coded wire sequence**

	COLOR									
	brown	red	orange	yellow	green	violet	gray	white	black	blue
	DWC-XX-01-300	DWC-XX-02-300	DWC-XX-03-300	DWC-XX-04-300	DWC-XX-05-300	DWC-XX-07-300	DWC-XX-08-300	DWC-XX-09-300	DWC-XX-10-300	DWC-XX-13-300
pin #	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
	71	72	73	74	75	76	77	78	79	80
	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100

**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.

DO NOT SCALE DRAWING

SHEET SCALE: 4:1

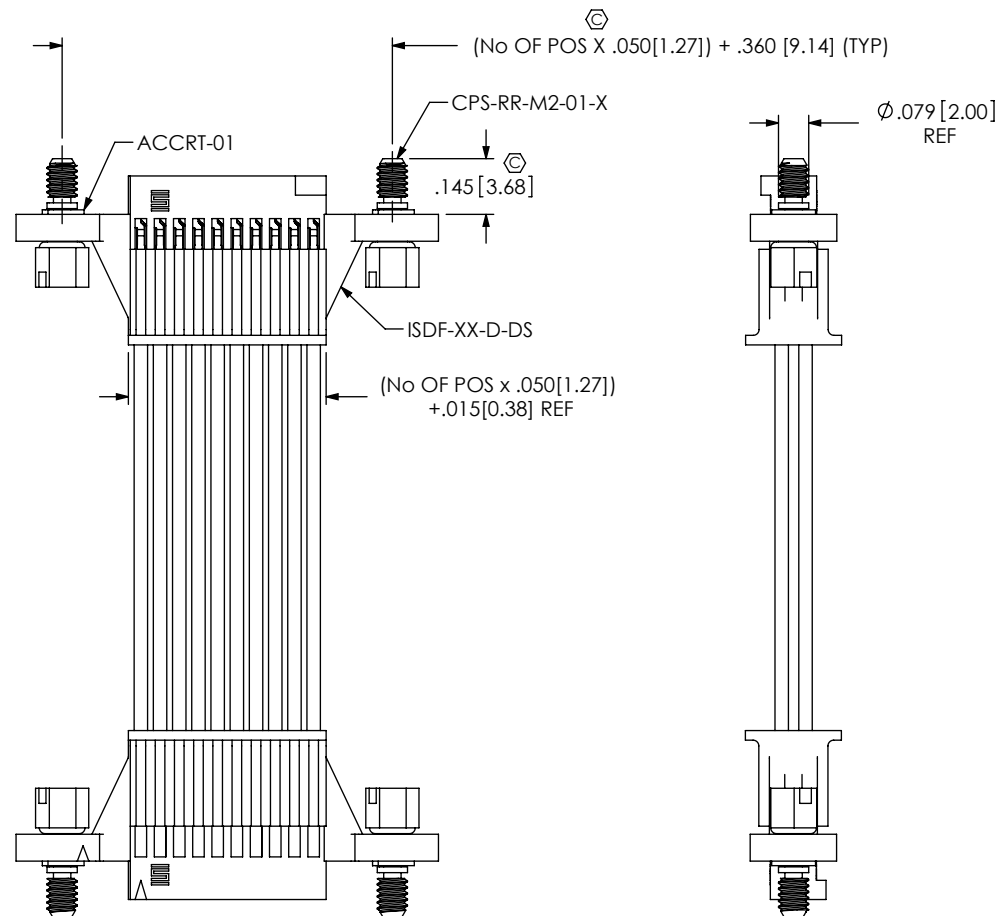
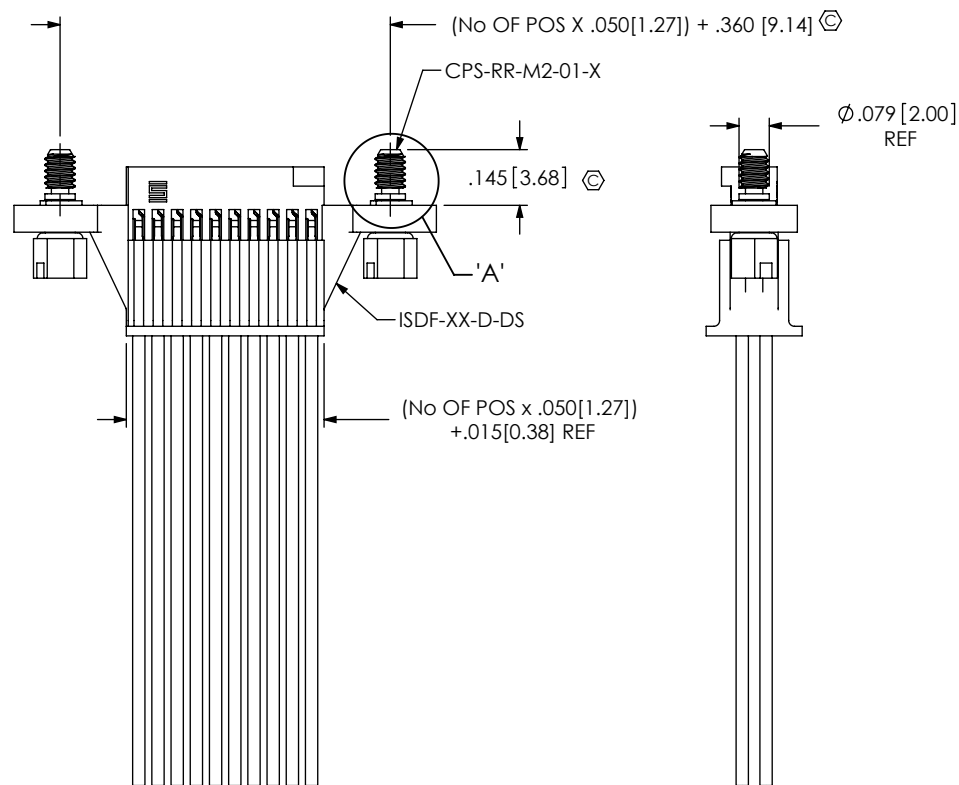
**samtec**

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 [1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
**SFSDX-XX-XXX-XX-XX.XX-XX-XXX**

BY: BRATCHER 5/5/2005 SHEET 3 OF 5



<p><b>PROPRIETARY NOTE</b></p> <p>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.</p>	<p><b>samtec</b></p> <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code 55322</p>
<p>DO NOT SCALE DRAWING</p>	<p>DESCRIPTION: .050[1.27] SOCKET DISCRETE CABLE ASSEMBLY</p>
<p>SHEET SCALE: 2:1</p>	<p>DWG. NO. SFSDX-XX-XXX-XX-XX.XX-XX-XXX</p>
<p>BY: BRATCHER 5/5/2005</p>	<p>SHEET 4 OF 5</p>

CABLE CUT IN-PROCESS

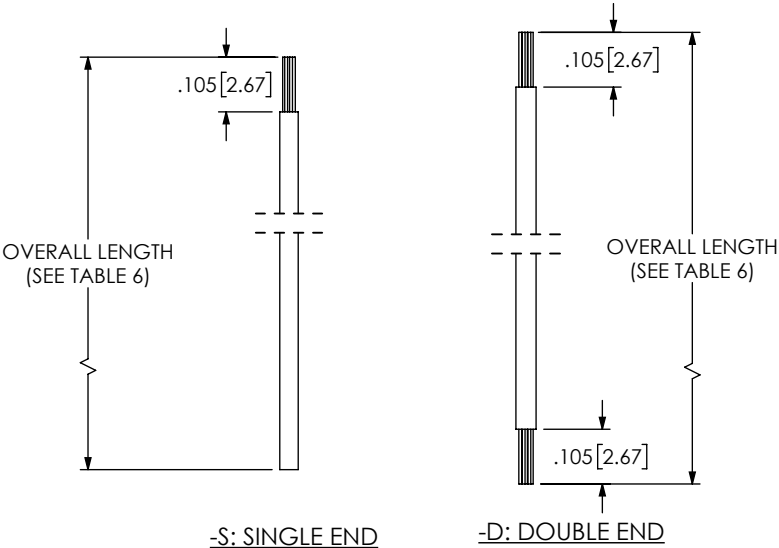


TABLE 6 ( OVERALL LENGTH SUBTRACTORS) (SEE NOTE 14)	
	LENGTH
-S: SINGLE END	.249 [6.325]
-D: DOUBLE END	.498 [12.649]

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.



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: 2:1

DESCRIPTION:  
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
SFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY:BRATCHER 5/5/2005 SHEET 5 OF 5