DO NOT SCALE FROM THIS PRINT

.110[2.79] REF

(No OF POS x .050[1.27]) + .120[2.54] REF

.240[6.10] REF

.153[3.89] REF

.225[5.72] REF

.050[1.27] REF

.375[9.53] REF

02

01

N

N-1

Cℓ

FIG 1
-S: SINGLE END
(TFSDX-07-28-XX-XX.XX-S SHOWN)

TFSD-XX-D-S

.562[14.26] REF

.238[6.05] REF

© XX.XX
(SEE NOTE 12)

T-1M44-2830-XX
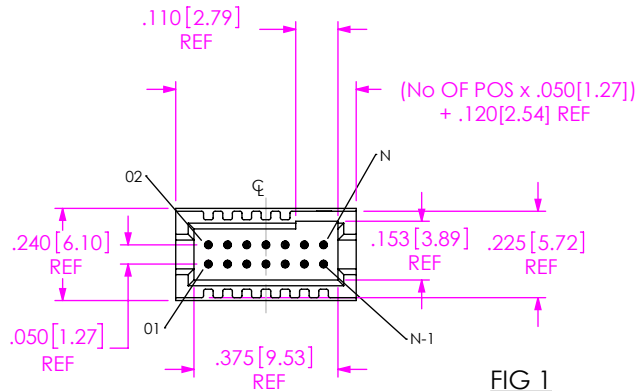
DWCX-28-XX-300

"A"

"A"

SECTION "A"-"A"

TFSDX-XX-XXX-XX-XX.XX-XX-XXX

FEP CABLE OPTION
-T: FEP
(LEAVE BLANK FOR STANDARD PVC INSULATION)
(SEE NOTE 9)

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 2, SHEET 2
(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,
   10µ" GOLD ON TAIL ON TAIL
-F: 3µ" FLASH GOLD IN CONTACT AREA,
   3µ" GOLD ON TAIL
   (SEE NOTE 13)
-GF: 3µ" FLASH GOLD IN CONTACT AREA,
   3µ" GOLD ON TAIL
   (-GF ONLY AVAILABLE TO EXISTING CUSTOMERS,
   SEE –F PLATING)

-NXX OPTION (END 2)
(ONLY AVAILABLE WITH -D,-DL,-T,-TF,TR)
(SEE SHT 3 FOR -D PINOUT)
(SEE SHT 4 FOR -T PINOUT)
-NUS: NOTCH UP, STRAIGHT
-NDS: NOTCH DOWN, STRAIGHT
-NUX: NOTCH UP, CROSSED
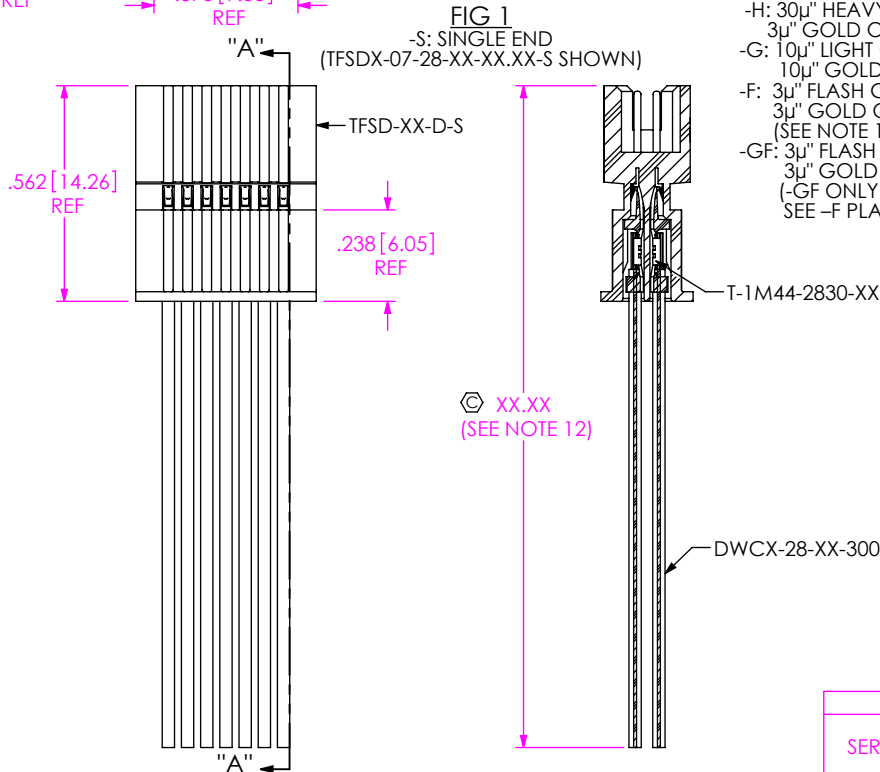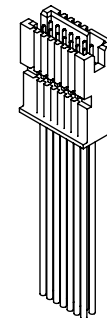-NDX: NOTCH DOWN, CROSSED

END OPTION
-S: SINGLE END
*** -SL: SINGLE END WITH FRICTION LOCK
   (SEE SHEET 2, FIG 4)
** -D: DOUBLE END
   (SEE SHEET 2, FIG 2)
** -T: TRANSFER END
   (SEE SHEET 2, FIG 3 AND SHEET 4)
*** -DL: DOUBLE END WITH FRICTION LOCK
   (SEE SHEET 2, FIG 5)
*** -TF: TRANSFER END WITH FRICTION LOCK
   (SEE SHEET 2, FIG 6)
** -TR: TRANSFER END W/RETENTION LATCH(SEE
   SHEET 5)(MUST CHOOSE FROM -NXX OPTIONS)
   (ONLY AVAILABLE IN -05 THRU -50 POS)

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

** MUST CHOOSE FROM -NXX OPTIONS
*** ONLY AVAILABLE ON POS 5, 7, & 10 - 50

TABLE 1				
SERIES	WIRE GAUGE	WIRE	PIN	CONTACT (ONLY USED WITH -T, -TF & -TR END OPTIONS)
TFSD	28 AWG	DWC-28-XX-300	T-1M44-2830-XX	C-203-2830-XX
TFSD	30 AWG	DWC-30-XX-300	T-1M44-2830-XX	C-203-2830-XX
TFSDT	28 AWG	DWCT-28-XX-TC	T-1M44-2830-XX	C-203-2830-XX
TFSDT	30 AWG	DWCT-30-XX-TC	T-1M44-2830-XX	C-203-2830-XX

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

NOTES:

1. © REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PULLOUT FORCE: 3 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 V. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH (1) ET STAMP ON THE BODY.
5. TINNED COPPER WIRE IS RoHS COMPLIANT.
6. NOTE DELETED.
7. END OF DISCRETE WIRE MUST BE IN THE RANGE AFTER CRIMP.
8. REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING AND ITS REQUIREMENTS.
9. SINGLE ENDED ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.
10. NOTE DELETED.
11. NOTE DELETED.
12. FOR LENGTHS LESS THAN 12 IN, TOLERANCE SHALL BE ±.125[3.18]. FOR OTHER LENGTHS, TOLERANCES SHALL BE ±2%.
13. USE C-203-XXXX-GF, T-1M44-XXXX-GF.
14. CUT LENGTH IS ASSEMBLY LENGTH MINUS OVERALL LENGTH SUBTRACTOR.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS   ANGLES
.XX: ±.01 [.3]   2°
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

DO NOT SCALE DRAWING   SHEET SCALE: 2:1

MATERIAL:
INSULATOR: LCP, COLOR: BLACK
CONTACT: BeCu
CABLE INSULATION: SEE CALLOUT
WIRE: DWC: TINNED COPPER.
   DWCT: TIN PLATED COPPER
   (SEE TABLE 1)

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

DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: LENNY K   7/18/06   SHEET 1 OF 6

REVISION AJ

FIG 2
-D: DOUBLE END
(TFSDX-07-28-XX-XX.XX-D-NUS SHOWN)
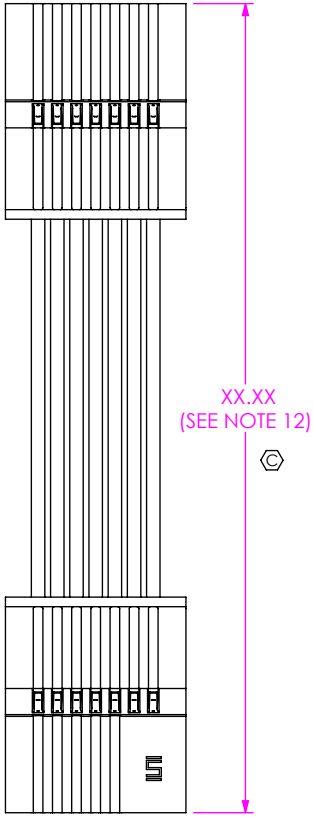(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

XX.XX
(SEE NOTE 12)
Ⓒ

FIG 3
-T:TRANSFER END
(TFSDX-07-28-XX-XX.XX-T-NUS SHOWN)
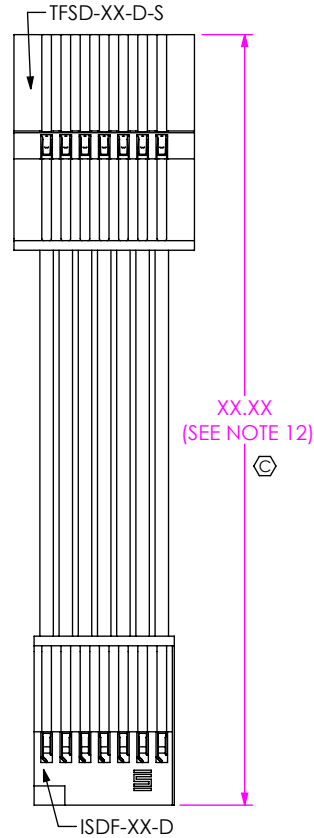(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TFSD-XX-D-S

XX.XX
(SEE NOTE 12)
Ⓒ

ISDF-XX-D

FIG 4
-SL: SINGLE END WITH FRICTION LOCK
(TFSDX-07-28-XX-XX.XX-SL SHOWN)
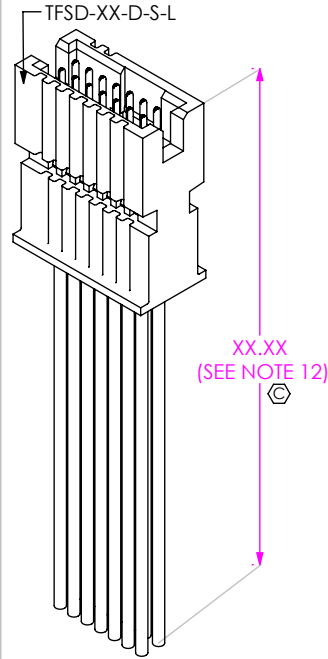(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TFSD-XX-D-S-L

XX.XX
(SEE NOTE 12)
Ⓒ

FIG 5
-DL: DOUBLE END WITH FRICTION LOCK
(TFSDX-07-28-XX-XX.XX-DL-NUS SHOWN)
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TFSD-XX-D-S-L

2.107 [53.52]
(SEE NOTE 12)
Ⓒ

TFSD-XX-D-S-L
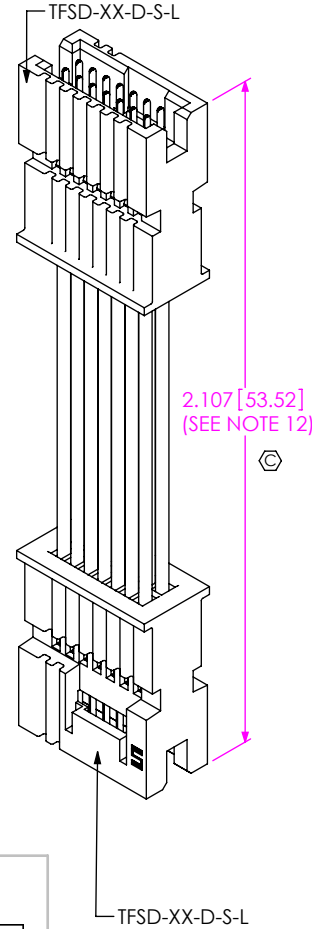
FIG 6
-TF: TRANSFER END WITH FRICTION LOCK
(TFSDX-07-28-XX-XX.XX-TF-NUS SHOWN)
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TFSD-XX-D-S-L

XX.XX
(SEE NOTE 12)
Ⓒ

ISDF-XX-D-L
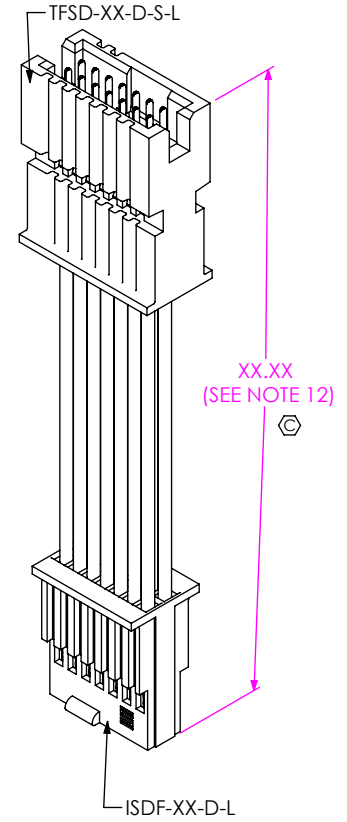
TABLE 2										
TFSD COLOR CODED WIRE SEQUENCE										
COLOR										
	BROWN	RED	ORANGE	YELLOW	GREEN	VIOLET	GRAY	WHITE	BLACK	BLUE
	DWC-XX-01-300	DWC-XX-02-300	DWC-XX-03-300	DWC-XX-04-300	DWC-XX-05-300	DWC-XX-07-300	DWC-XX-08-300	DWC-XX-09-300	DWC-XX-10-300	DWC-XX-13-300
	1	2	3	4	5	6	7	8	9	10
	11	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
PIN #	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

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

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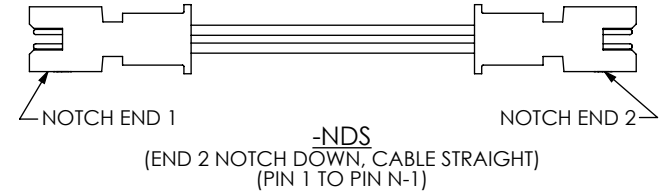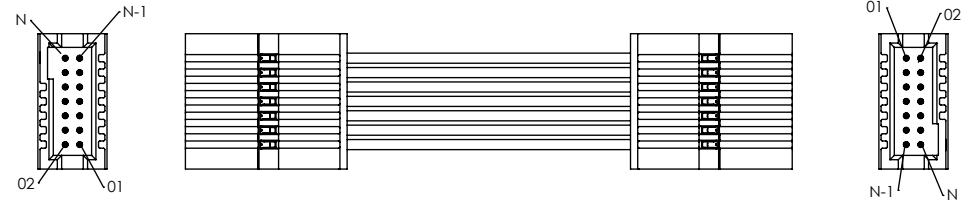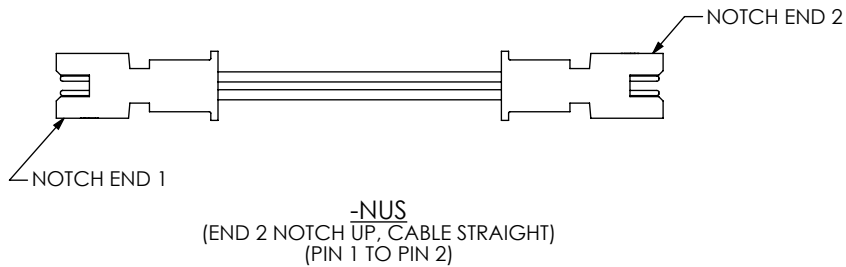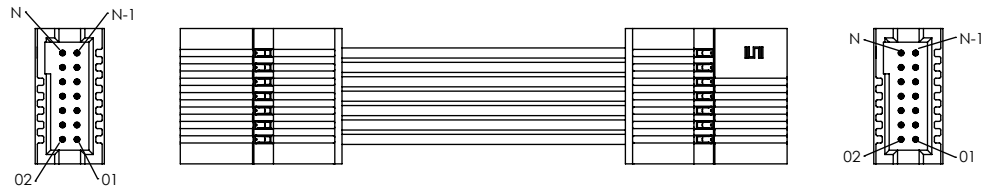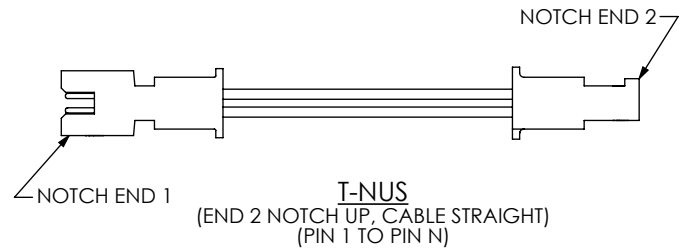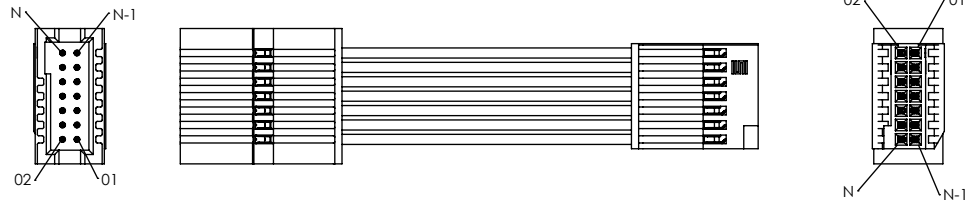520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733   FAX: 812-948-5047
e-Mail info@SAMTEC.com   code 55322

DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX
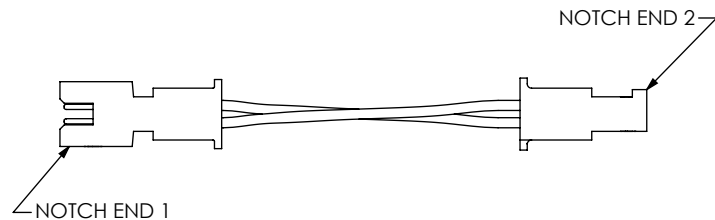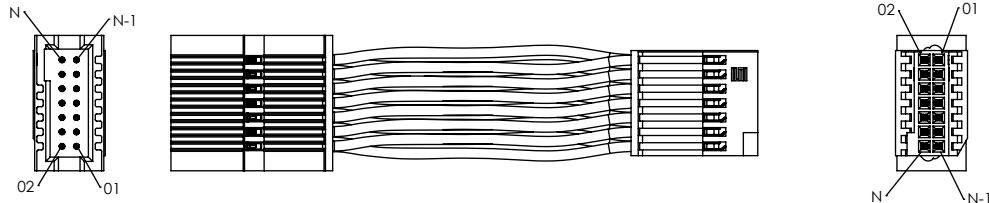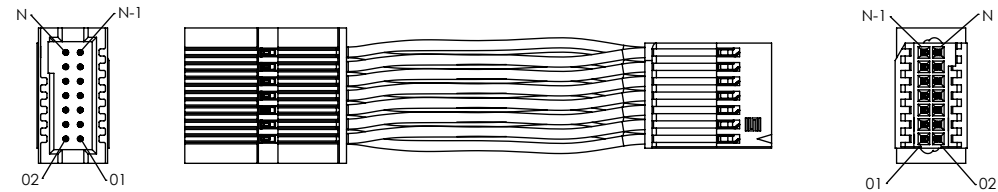
BY: LENNY K   7/18/06   SHEET 2 OF 6

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

N   N-1
02   01

NOTCH END 2

NOTCH END 1

-NUS-
(END 2 NOTCH UP, CABLE STRAIGHT)
(PIN 1 TO PIN 2)

N   N-1
02   01

01   02
N-1   N

NOTCH END 1   NOTCH END 2

-NDS-
(END 2 NOTCH DOWN, CABLE STRAIGHT)
(PIN 1 TO PIN N-1)

N   N-1
02   01

N   N-1
02   01

NOTCH END 2

NOTCH END 1

-NUX-
(END 2 NOTCH UP, CABLE CROSSED)
(PIN 1 TO PIN 1)

N   N-1
02   01

01   02
N-1   N

NOTCH END 1   NOTCH END 2

-NDX-
(END 2 NOTCH DOWN, CABLE CROSSED)
(PIN 1 TO PIN N)

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DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: LENNY K   7/18/06   SHEET 3 OF 6

T-NUS
(END 2 NOTCH UP, CABLE STRAIGHT)
(PIN 1 TO PIN N)

NOTCH END 2

NOTCH END 1

T-NDS
(END 2 NOTCH DOWN, CABLE STRAIGHT)
(PIN 1 TO PIN 1)

NOTCH END 1

NOTCH END 2
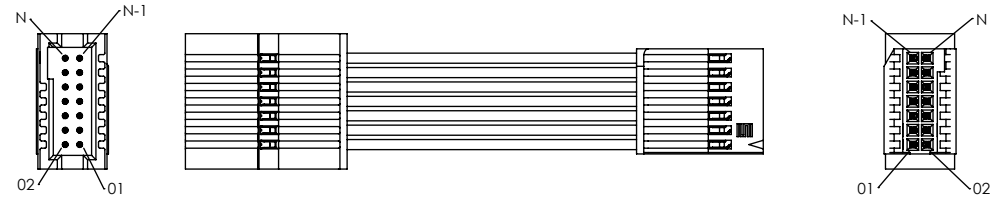
T-NUX
(END 2 NOTCH UP, CABLE CROSSED)
(PIN 1 TO PIN N-1)

NOTCH END 2

NOTCH END 1

T-NDX
(END 2 NOTCH DOWN, CABLE CROSSED)
(PIN 1 TO PIN 2)

NOTCH END 1

NOTCH END 2

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

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: LENNY K   7/18/06   SHEET 4 OF 6

FIG 7
-TR: TRANSFER END WITH RETENTION LATCH
(TFSDX-07-28-XX-XX.XX-TR-NUS SHOWN)
(DIFFERENT AS SHOWN,
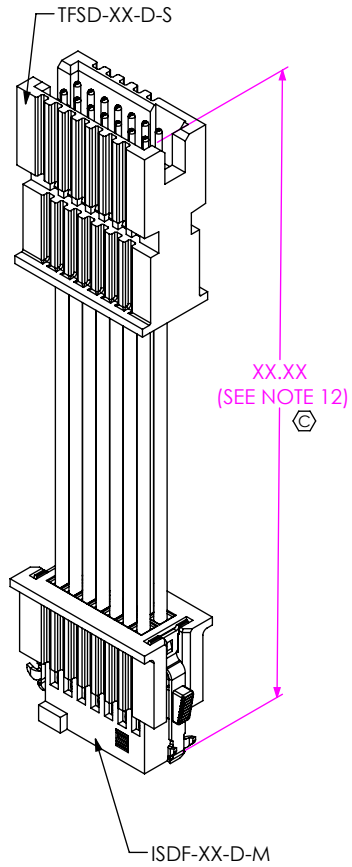OTHERWISE SAME AS FIG 1)

FIG 8
-TR: TRANSFER END WITH RETENTION LATCH
(TFSDX-07-28-XX-XX.XX-TR-NDS SHOWN)
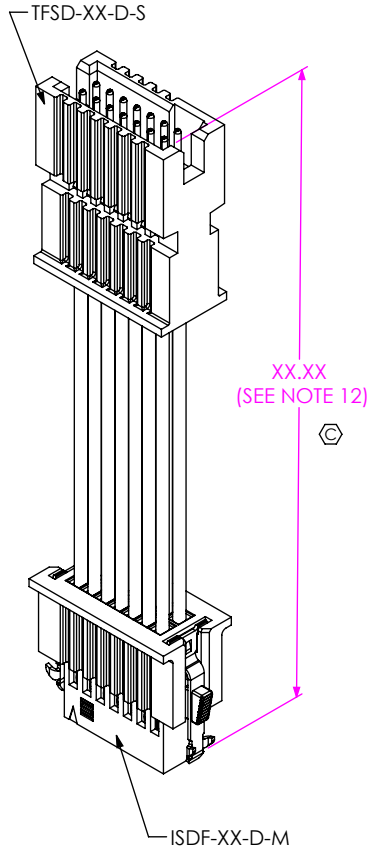(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

FIG 9
-TR: TRANSFER END WITH RETENTION LATCH
(TFSDX-07-28-XX-XX.XX-TR-NDX SHOWN)
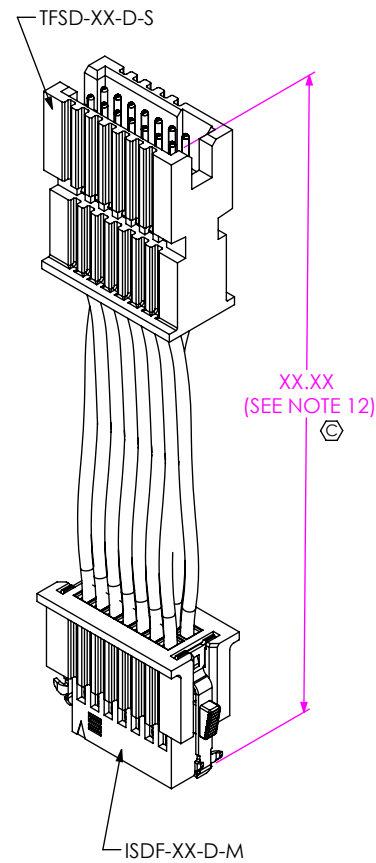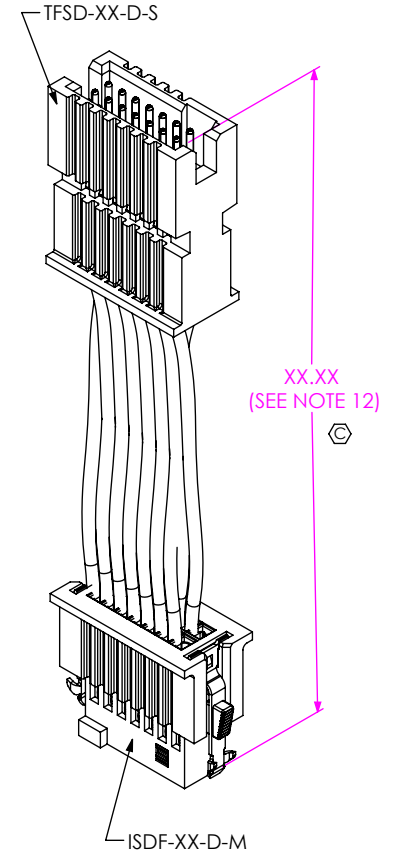(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

FIG 10
-TR: TRANSFER END WITH RETENTION LATCH
(TFSSX-07-28-XX-XX.XX-TR-NUX SHOWN)
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TFSD-XX-D-S

XX.XX
(SEE NOTE 12)
©

ISDF-XX-D-M

TFSD-XX-D-S

XX.XX
(SEE NOTE 12)
©

ISDF-XX-D-M

TFSD-XX-D-S

XX.XX
(SEE NOTE 12)
©

ISDF-XX-D-M

TFSD-XX-D-S

XX.XX
(SEE NOTE 12)
©

ISDF-XX-D-M

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: LENNY K   7/18/06   SHEET 5 OF 6
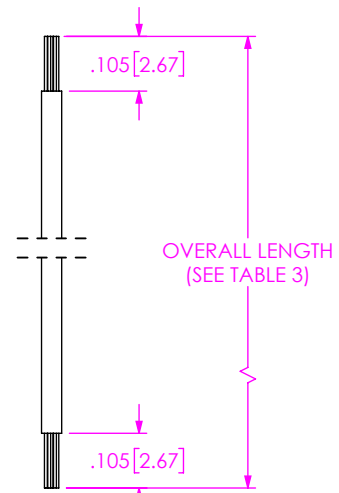
REVISION AJ

CABLE CUT IN-PROCESS

.105[2.67]

OVERALL LENGTH
(SEE TABLE 3)

-S: SINGLE END

.105[2.67]

OVERALL LENGTH
(SEE TABLE 3)

.105[2.67]

-D: DOUBLE END

.105[2.67]

OVERALL LENGTH
(SEE TABLE 3)

.105[2.67]
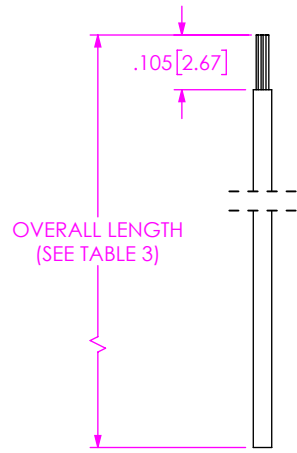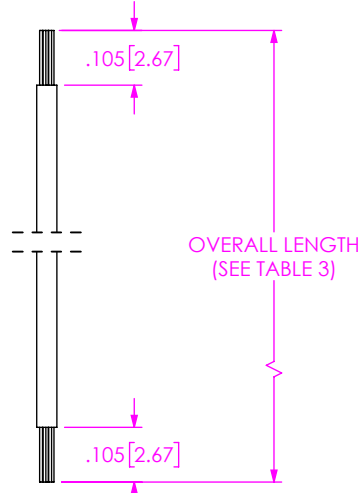
-T: TRANSFER END

TABLE 3 (OVERALL LENGTH SUBTRACTORS) (SEE NOTE 14)	
	LENGTH
-S: SINGLE END	.400 [10.16]
-D: DOUBLE END	.800 [20.32]
-T: TRANSFER END	.675 [17.15]

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SHEET SCALE: 2:1

DESCRIPTION:
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.
TFSDX-XX-XXX-XX-XX.XX-XX-XXX

BY: LENNY K   7/18/06   SHEET 6 OF 6

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