

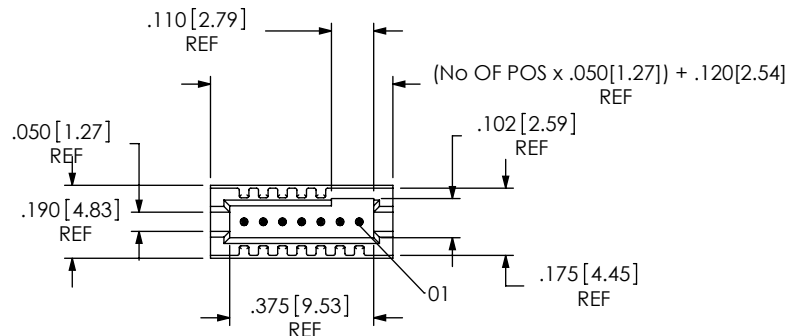
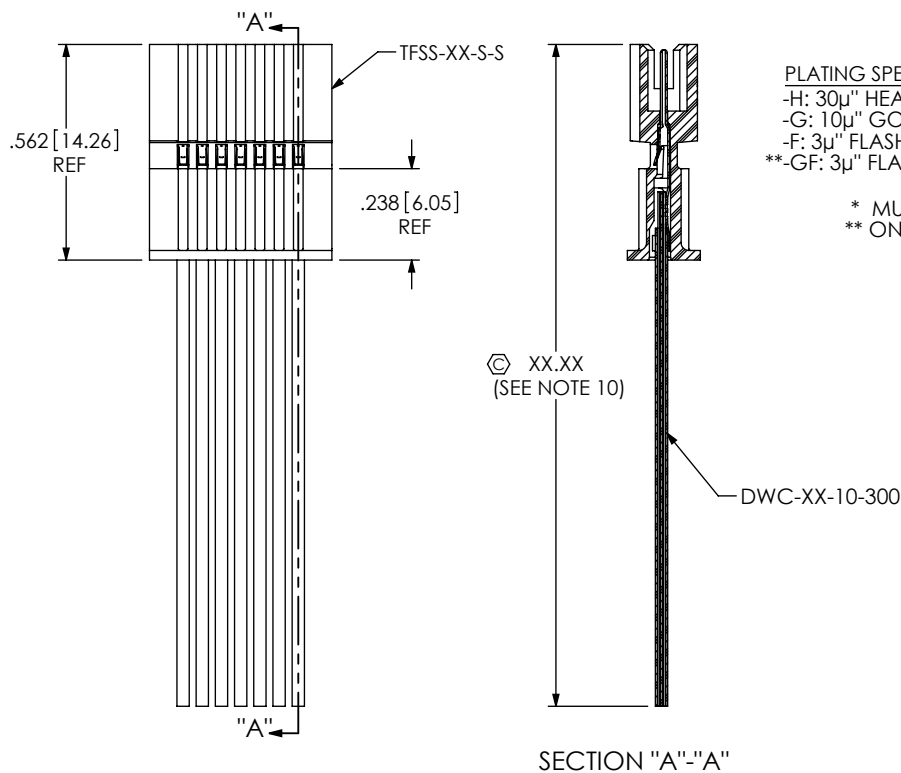


FIG 1  
-S: SINGLE END  
(TFSSX-07-28-XX-XX.XX-S SHOWN)



## 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 300 V. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH (1) ET STAMP ON THE BODY.
5. TINNED COPPER WIRE IS ROHS COMPLIANT.
6. PARTS TO BE LAYER PACKAGED.
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. END OF DISCRETE WIRE MUST BE IN RANGE AFTER CRIMP.
10. FOR LENGTHS LESS THAN 12 IN, TOLERANCE SHALL BE  $\pm 0.125$  [3.18]. FOR OTHER LENGTHS, TOLERANCES SHALL BE  $\pm 2\%$ .
11. DOES NOT APPLY TO FEP CABLE.
12. SINGLE ENDED ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.

TFSSX-XX-XXX-XX-XX.XX-X-XXX

## FEP CABLE OPTION

-T: FEP

(LEAVE BLANK FOR STANDARD  
PVC INSULATION  
(SEE NOTE 12))

## No OF POSITIONS

-02 THRU -50

## WIRE GAUGE (AWG)

-28

-30

## COLOR CODE

LEAVE BLANK FOR ALL BLACK WIRE,  
C: COLOR CODED WIRE (SEE TABLE 2;  
SHT 2; SEE NOTE 11)

-NXX OPTION (END 2)  
(ONLY AVAILABLE WITH -D, -T, OR -TR)  
-NUS: NOTCH UP, STRAIGHT  
(PIN 1 TO PIN 1)  
-NDS: NOTCH DOWN, STRAIGHT  
(PIN 1 TO PIN 7)

## END OPTION

-S: SINGLE END

\* -D: DOUBLE END  
(MUST CHOOSE FROM -NXX OPTIONS)

\* -T: TRANSFER END (SEE SHEET 2 AND 4)  
(MUST CHOOSE FROM -NXX OPTIONS)

-TR: TRANSFER END W/ RETENTION LATCH  
(SEE SHEET 2 AND 4)  
(MUST CHOOSE FROM -NXX OPTIONS)

## ASSEMBLED LENGTH

SPECIFY IN INCHES

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

## PLATING SPECIFICATION

-H: 30μ" HEAVY GOLD IN CONTACT AREA, 3μ" FLASH GOLD ON TAIL

-G: 10μ" GOLD IN CONTACT AREA, 3μ" FLASH GOLD ON TAIL

-F: 3μ" FLASH GOLD IN CONTACT AREA, 3μ" FLASH GOLD ON TAIL

\*\* -GF: 3μ" FLASH GOLD IN CONTACT AREA, 3μ" FLASH GOLD ON TAIL

\* MUST CHOOSE FROM -NXX OPTIONS

\*\* ONLY AVAILABLE TO EXISTING CUSTOMERS, SEE -F PLATING

## CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE

| ASSEMBLY OPERATION                      | IN PROCESS INSPECTION |
|-----------------------------------------|-----------------------|
| CUT CABLE/STRIP                         | SEE NOTE 8            |
| CRIMP CONTACTS                          | SEE NOTE 8            |
| POKE CONTACTS                           | C1                    |
| E-TEST                                  | C5                    |
| CPC'S INTENTIONALLY DELETED: C2, C3, C4 |                       |

TABLE 1

| SERIES | WIRE GAUGE | CABLE         | TERMINAL       | CONTACT*      |
|--------|------------|---------------|----------------|---------------|
| TFSS   | 28         | DWC-28-10-300 | T-1M44-2830-XX | C-203-2830-XX |
| TFSS   | 30         | DWC-30-10-300 | T-1M44-2830-XX | C-203-2830-XX |
| TFSS   | 28         | DWCT-28-01-TC | T-1M44-2830-XX | C-203-2830-XX |
| TFSS   | 30         | DWCT-30-01-TC | T-1M44-2830-XX | C-203-2830-XX |

\* CONTACTS USED FOR TRANSFER END OPTION ONLY

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS

.XX:  $\pm 0.01$  [.3].XXX:  $\pm 0.005$  [.13].XXXX:  $\pm 0.0020$  [.051]

ANGLES

2°

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e-Mail: info@SAMTEC.com code 55322

## MATERIAL:

INSULATOR: LCP UL 94 VO, COLOR: BLACK  
CONTACT: BeCu  
CABLE INSULATION: PVC  
WIRE: 28 OR 30 AWG, TINNED COPPER

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

DO NOT SCALE DRAWING SHEET SCALE: 2:1

DESCRIPTION:

.050 [1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.

TFSSX-XX-XXX-XX-XX.XX-X-XXX

BY: GAYNOR 6/13/2008

SHEET 1 OF 4

FIG 2  
\*-D: DOUBLE END  
(TFSSX-07-28-X-XX.XX-D-NUS SHOWN)  
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

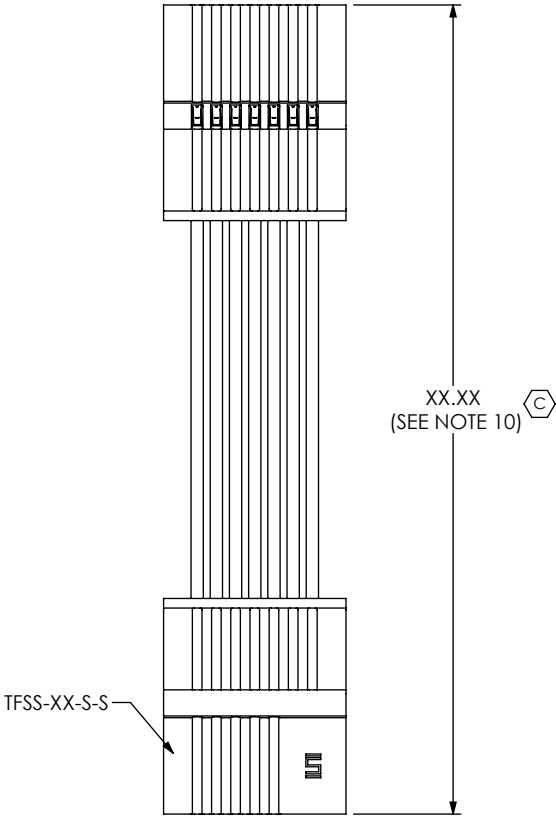


FIG 3  
\*-T: TRANSFER END  
(TFSSX-07-28-X-XX.XX-T-NUS SHOWN)  
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

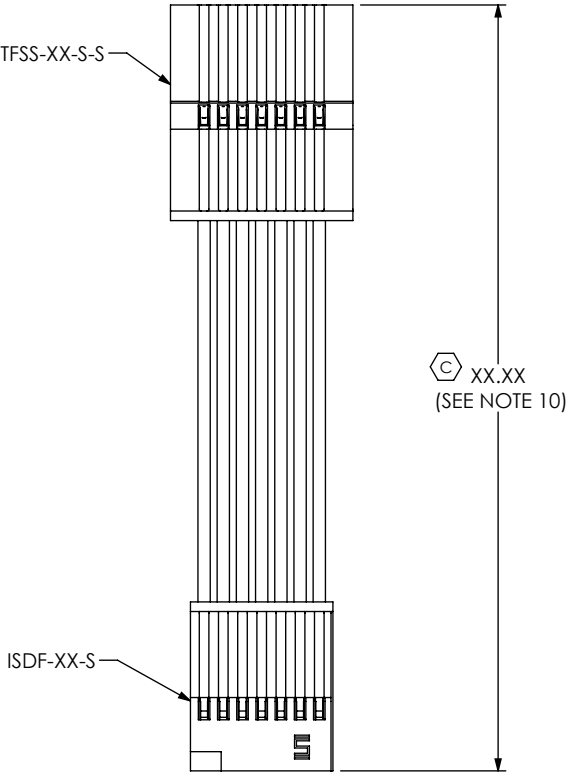
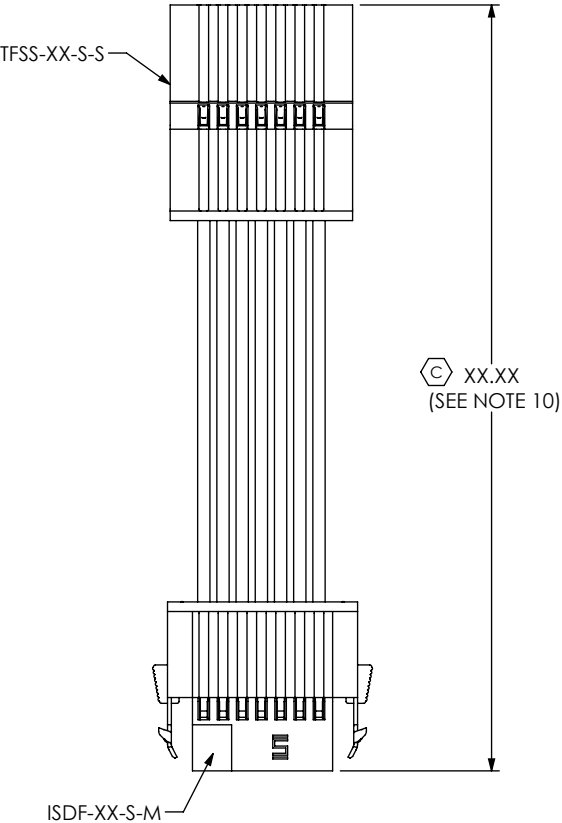


FIG 4  
\*-TR: TRANSFER END WITH RETENTION LATCH  
(TFSSX-07-28-X-XX.XX-TR-NUS SHOWN)  
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)  
(ONLY AVAILABLE IN -02 THRU -30 POS)



| TABLE 2                        |               |               |               |               |               |               |               |               |               |               |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TFSS 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            |

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

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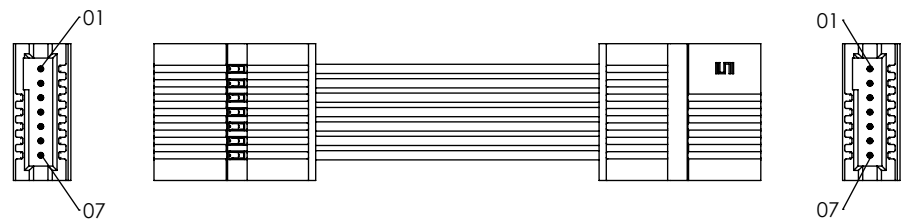


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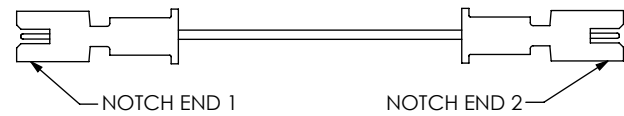
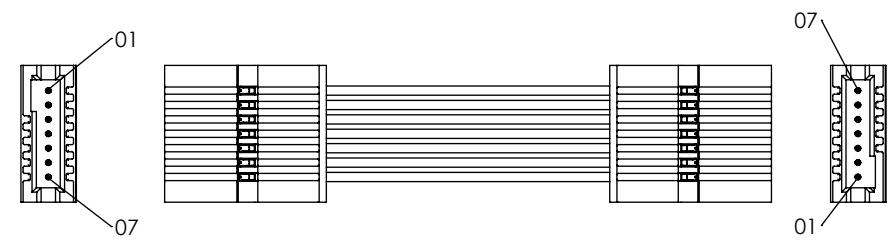
DESCRIPTION:  
.050[1.27] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
TFSSX-XX-XXX-XX-XX.XX-X-XXX

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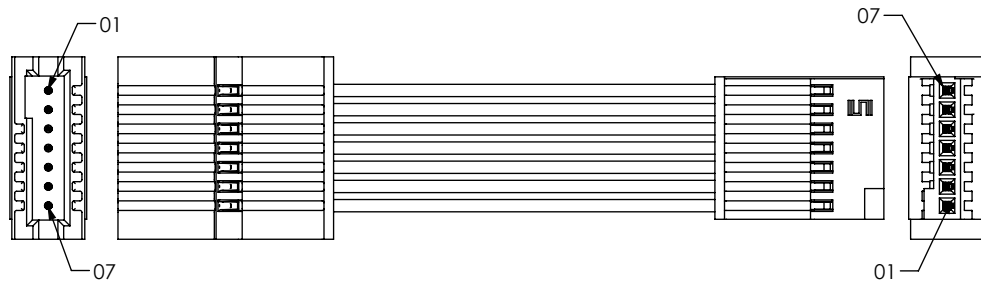


-NUS  
(END 2 NOTCH UP, CABLE STRAIGHT)  
(PIN 1 TO PIN 1)

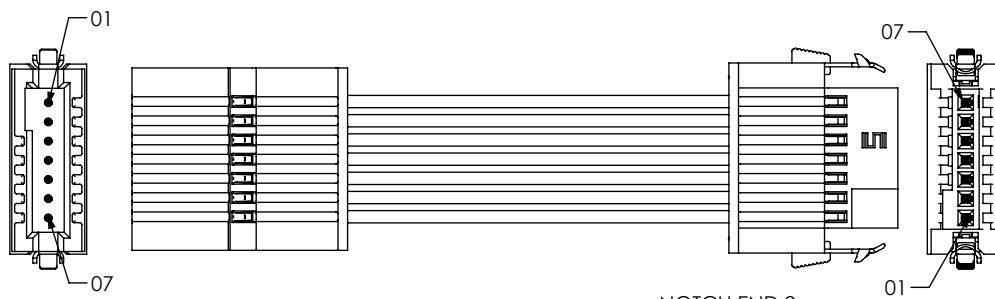


-NDS  
(END 2 NOTCH DOWN, CABLE STRAIGHT)  
(PIN 1 TO PIN 7)

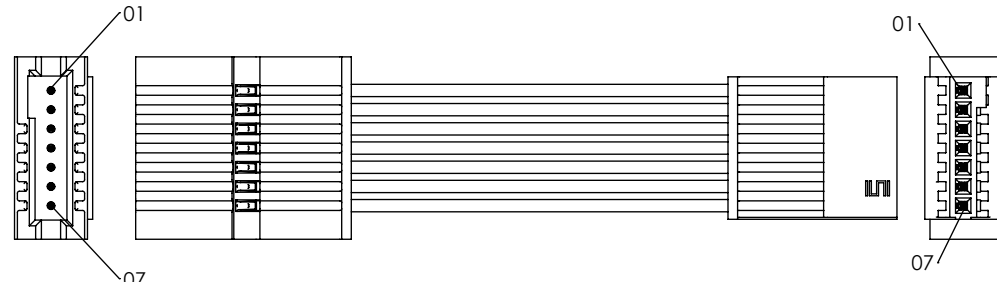
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|                                                                                                                                                                                                                                                                                                                                                                                | DWG. NO.<br>TFSSX-XX-XXX-XX-XX.XX-X-XXX                                                                                                                                                                               |              |
|                                                                                                                                                                                                                                                                                                                                                                                | BY: GAYNOR 6/13/2008                                                                                                                                                                                                  | SHEET 3 OF 4 |



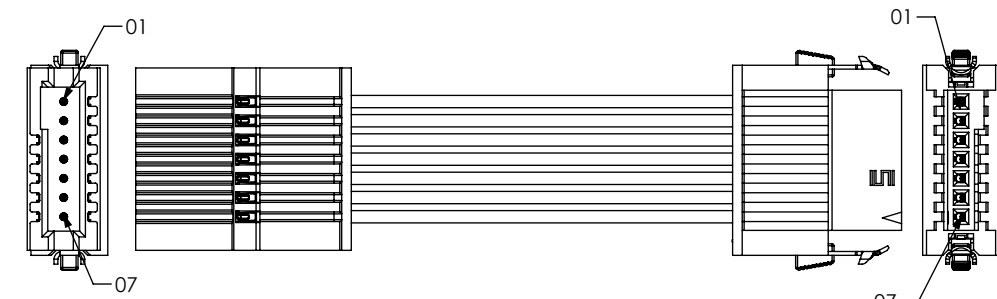
T-NUS  
(END 2 NOTCH UP, CABLE STRAIGHT)  
(PIN 1 TO PIN 7)



TR-NUS  
(END 2 NOTCH UP, CABLE STRAIGHT)  
(PIN 1 TO PIN 7)



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



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

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