



**THE DATASHEET OF  
TCSD-08-D-11.81-01-F-N-R**



NOTES:

- HIDDEN LINES ARE USED TO SHOW POLARIZATION WHEN USING -N OPTION.
- Ⓢ REPRESENTS A CRITICAL DIMENSION.
- AS OF REV 'C' ON TCB-50 CABLE ASSEMBLIES WILL BE LEAD FREE.
- ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
- ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 800V.
- STRAIN RELIEF TO WITHSTAND 5LB STRAIGHT PULL.
- WHEN CUTTING CABLE TO LENGTH, CONDUCTORS MAY NOT EXTEND PAST THE CABLE INSULATION.
- REFERENCE TCSD-XX-XX-X-X-XXX PRINT FOR CONNECTOR ASSEMBLY AND ITS REQUIREMENTS.
- 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 THE CABLE THICKNESS ON NON-CONSECUTIVE STRANDS IS CONSIDERED A PROCESS INDICATOR.
- FOR LENGTHS LESS THAN 12.5" TOLERANCE SHALL BE +/- .125, ALL OTHER LENGTHS SHALL BE +/- .1%.
- FOR ASSEMBLY LENGTH SHORTER THAN 2.000[50.80] BREAK OUT SHALL EXTEND TO THE OPPOSITE CONNECTOR.
- SEE PACKAGING MANUAL FOR PACKAGING INSTRUCTIONS

DO NOT SCALE FROM THIS PRINT

TCSD-XX-X-XX.XX-01-X-XXX-XXX

No OF POSITIONS

03, 04, 05, 07, 08, 10, 12, 13, 15, 17, 20, 22, 25  
NOTE: OTHER POSITIONS AVAILABLE AS ASO. TOOL IS CAPABLE OF POSITIONS 2-25

OPTIONS #2  
-RW, -R, -RN1, -RN2, -DXX, -SR, -M, -O

OPTIONS #1  
-N, -PXX, -BXX

PLATING OPTION

-F: FLASH SELECTIVE GOLD, MATTE TIN TAIL  
-L: LIGHT SELECTIVE GOLD, MATTE TIN TAIL  
(LEAVE BLANK FOR STANDARD -S: SELECTIVE PLATING)

END ASSEMBLY

-S: SINGLE  
-D: DOUBLE

ASSEMBLY LENGTH

(INCLUDES ADDED OPTION LENGTHS)  
ALL OPTIONS THAT USE -D"XX": 4.00 [101.6] MINIMUM  
ALL OTHER OPTION: 1.00 [25.4] MINIMUM

LEAD STYLE

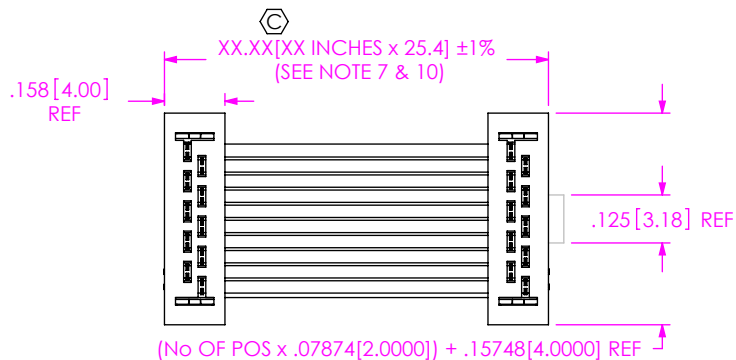
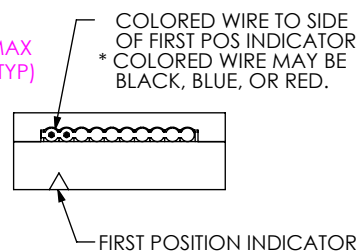
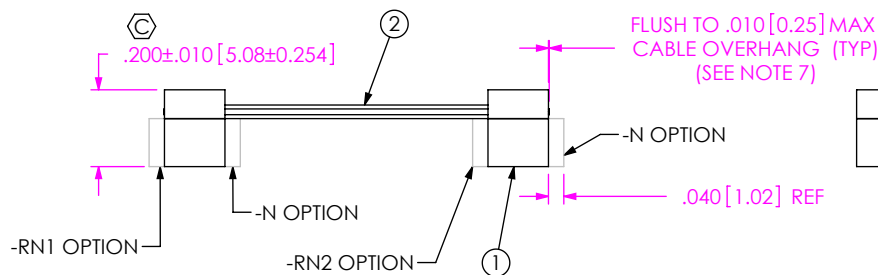
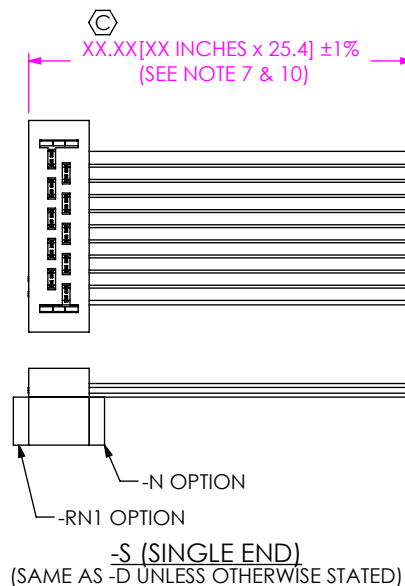


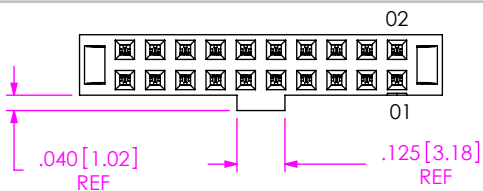
TABLE 1	
ITEM #	PART
1	TCSD-XX-XX-XXX
2	TCB-50
3	TFB-XX-D-XX-X
4	TMSR-XX
5	C-57-X
6	TMC-XX-D



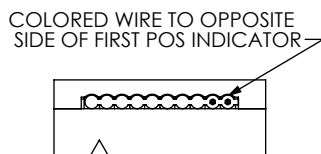
-D: (DOUBLE END)



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



-N: NOTCH POLARIZATION  
(USE TCSD-XX-XX-N)  
(AVAILABLE ON POS 04 THRU 25)  
(NOT AVAILABLE WITH -RN1 OR -RN2 OPTIONS)



-RW: REVERSE WIRING  
(NOT AVAILABLE WITH -RN1 OR -RN2 OPTIONS)

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

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**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATOR: BLACK PBT  
CONTACT: HEAT TREATED BeCu  
STRAIN RELIEF: BLACK PBT  
WIRE: 28 AWG, 7/36, TINNED, COPPER WITH PVC INSULATOR  
**PLATING:**  
-L: .000015 GOLD ON CONTACT AREA, TIN ON REMAINDER  
-F: .000030 GOLD ON CONTACT AREA, TIN ON REMAINDER  
(STANDARD PLATING IS .000030 GOLD ON CONTACT AREA, TIN ON REMAINDER)

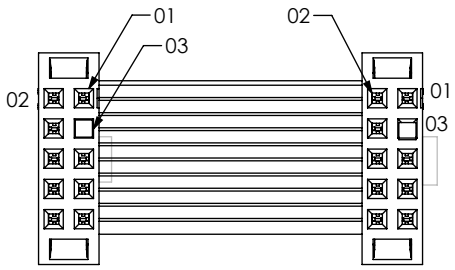


520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
2MM DOUBLE ROW FEMALE IDC ASSEMBLY

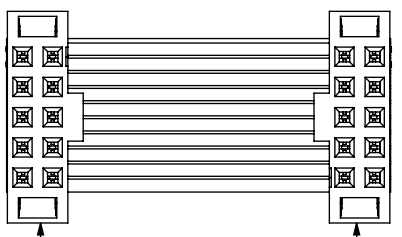
DWG. NO.  
TCSD-XX-X-XX.XX-01-X-XXX-XXX

BY: B RAY 11/20/2007 SHEET 1 OF 4

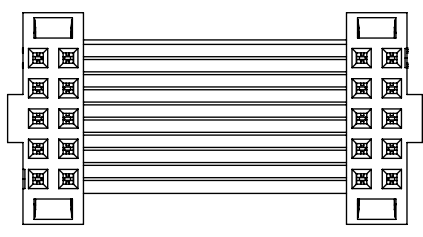


-P"XX": POLARIZED MATING

NOTE: THE SAME POSITION WILL BE POLARIZED ON BOTH ENDS (USE PK-07-N)



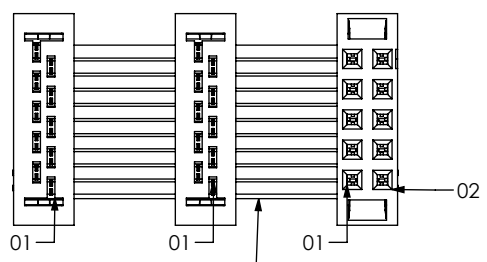
TCSD-05-D-XX-01-RN2 SHOWN



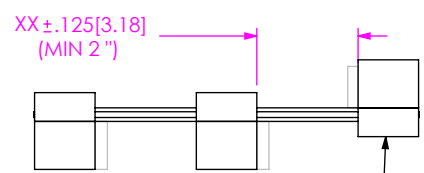
TCSD-05-D-XX-01-RN1 SHOWN

-RN1 OR -RN2 (REVERSE POLARIZATION NOTCH)

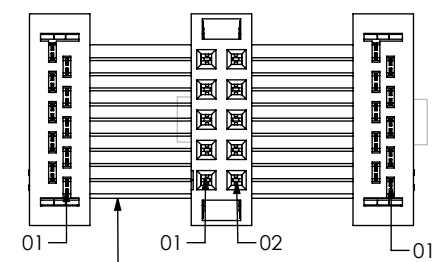
NOTE:  
 -RN1 = REVERSE NOTCH ON 1ST CONNECTOR ONLY AVAILABLE FOR POSITIONS 4 OR GREATER (NOT AVAILABLE WITH -R OR -RW OPTIONS)  
 -RN2 = REVERSE NOTCH ON 2ND CONNECTOR ONLY (NOT AVAILABLE WITH -R OR -RW OPTIONS)  
 (-RNX NOT AVAILABLE WITH -N & -D"XX" OPTIONS)



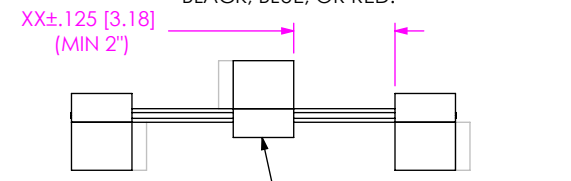
COLORED WIRE TO SIDE OF FIRST POS INDICATOR  
 \* COLORED WIRE MAY BE BLACK, BLUE, OR RED.



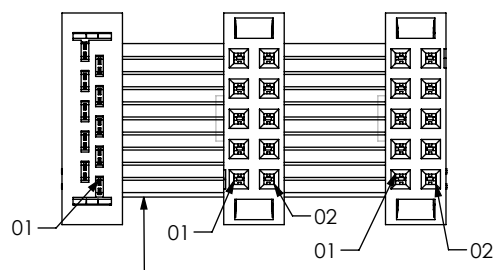
OUTSIDE SOCKET REVERSED WHEN DAISY CHAINED  
 -O: OUTSIDE REVERSED (REQUIRES -D"XX") (NOT AVAILABLE WITH -R OR -M) (MINIMUM 2.00[50.8], 1.00[25.4] INCREMENTS)



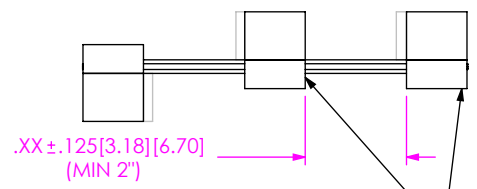
COLORED WIRE TO SIDE OF FIRST POS INDICATOR  
 \* COLORED WIRE MAY BE BLACK, BLUE, OR RED.



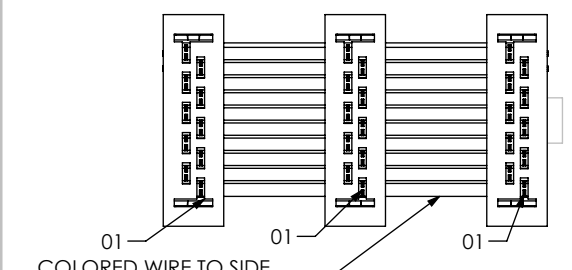
MIDDLE SOCKET REVERSED WHEN DAISY CHAINED  
 -M: MIDDLE REVERSED (REQUIRES -D"XX") (NOT AVAILABLE WITH -R OR -O) (MINIMUM 2.00[50.8], 1.00[25.4] INCREMENTS)



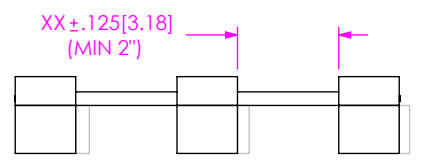
COLORED WIRE TO SIDE OF FIRST POS INDICATOR  
 \* COLORED WIRE MAY BE BLACK, BLUE, OR RED.



BOTH SOCKETS REVERSED WHEN DAISY CHAINED  
 -R: REVERSE CONNECTOR (-D"XX" OPTIONAL) (SHOWN ABOVE WITH -D"XX") (MINIMUM 2.00 [50.8] WITH 1.00 [25.4] INCREMENTS WHEN USED WITH -D"XX") (NOT AVAILABLE WITH -O, -M, -RN1 OR -RN2)



COLORED WIRE TO SIDE OF FIRST POS INDICATOR  
 \* COLORED WIRE MAY BE BLACK, BLUE, OR RED.



-D"XX": DAISY CHAINED (2" MIN LENGTH, 1" INCREMENTS ONLY)

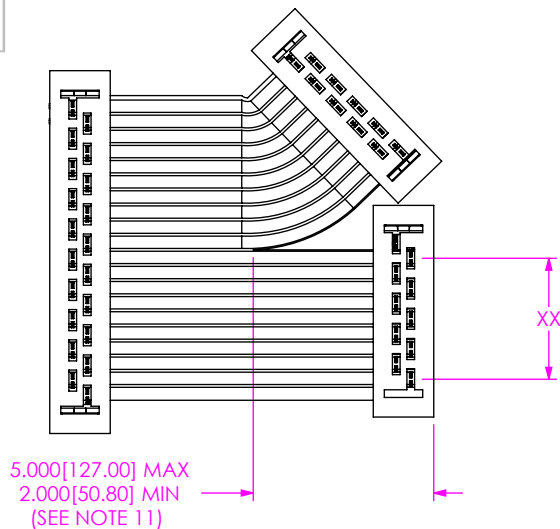
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DO NOT SCALE DRAWING  
 SHEET SCALE: 2:1



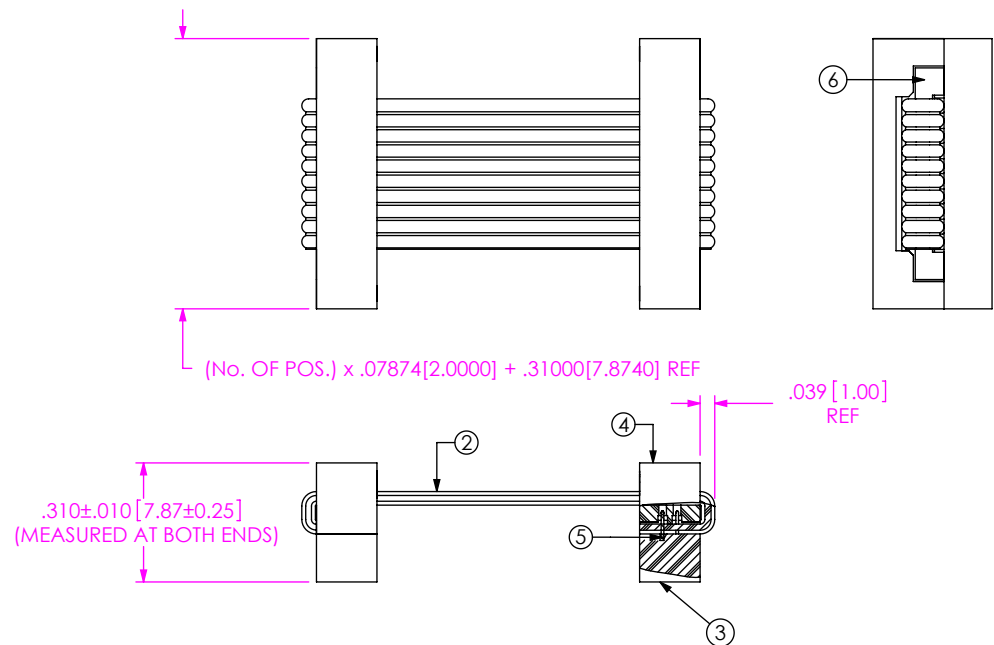
520 PARK EAST BLVD. NEW ALBANY, IN 47150  
 PHONE: 812-944-6733 FAX: 812-948-5047  
 e-Mail info@SAMTEC.com code 55322

DESCRIPTION: 2MM DOUBLE ROW FEMALE IDC ASSEMBLY		
DWG. NO. TCSD-XX-X-XX.XX-01-X-XXX-XXX		
BY: B RAY	11/20/2007	SHEET 2 OF 4

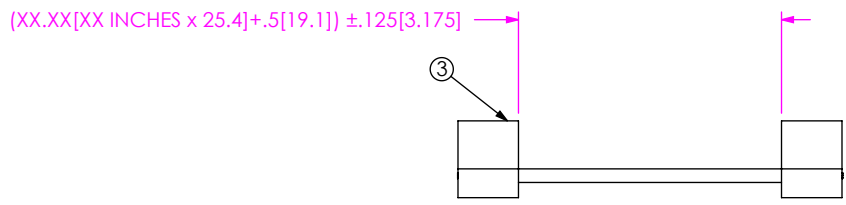


-B"XX": BREAKOUT OPTION  
(TCSD-10-D-XX.XX-01-X-B05 SHOWN)

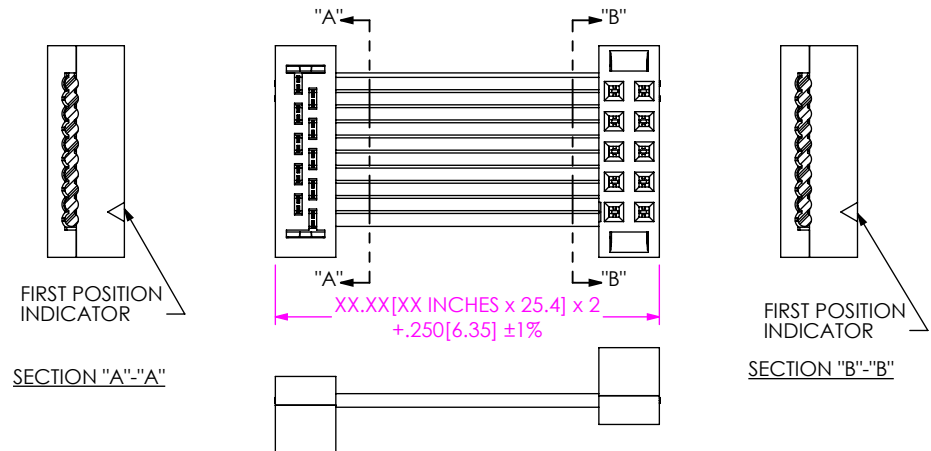
"XX" = NO. OF CONDUCTORS PER ROW BROKEN OUT FROM THE FIRST POSITION.  
AND THE BREAKOUT ENDS MUST BE EQUAL TO THE FULL POSITION CONNECTOR.



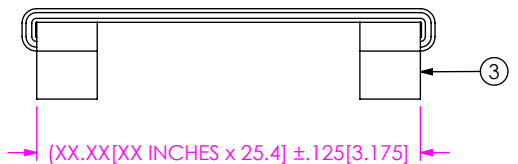
-SR: STRAIN RELIEF  
(NOT AVAILABLE WITH -O, -M, -R, -D"XX" OR -B"XX")  
(SAME AS -D, UNLESS OTHERWISE STATED)  
(SOLD IN ASSEMBLIES ONLY)  
(MUST USE HEAT BEND/STRAIN RELIEF TOOL ON POSITIONS 20-25)



IN-PROCESS 1  
(-SR ONLY)



IN-PROCESS  
(SINGLE END ONLY)



IN-PROCESS 2  
(-SR ONLY)

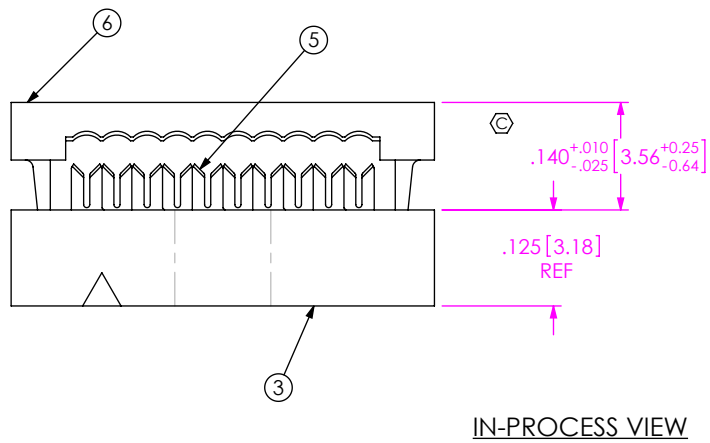
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SHEET SCALE: 2:1

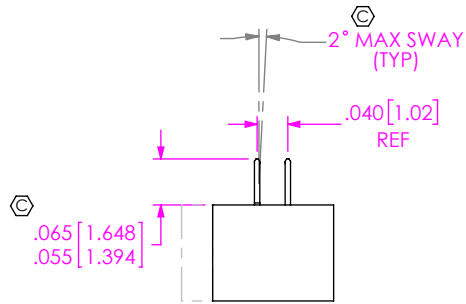


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DWG. NO.  
TCSD-XX-X-XX.XX-01-X-XXX-XXX  
BY: B RAY 11/20/2007 SHEET 3 OF 4



END VIEW SHOWN WITH  
TMC-XX-D REMOVED



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SHEET SCALE: 2:1



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 2MM DOUBLE ROW FEMALE IDC ASSEMBLY

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

BY: B RAY 11/20/2007 SHEET 4 OF 4

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-  [Samtec Inc. Information](#)

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