

# DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

DO NOT  
SCALE FROM  
THIS PRINT

FIG 1  
S2SDX-05-24-X-XX.XX-S SHOWN

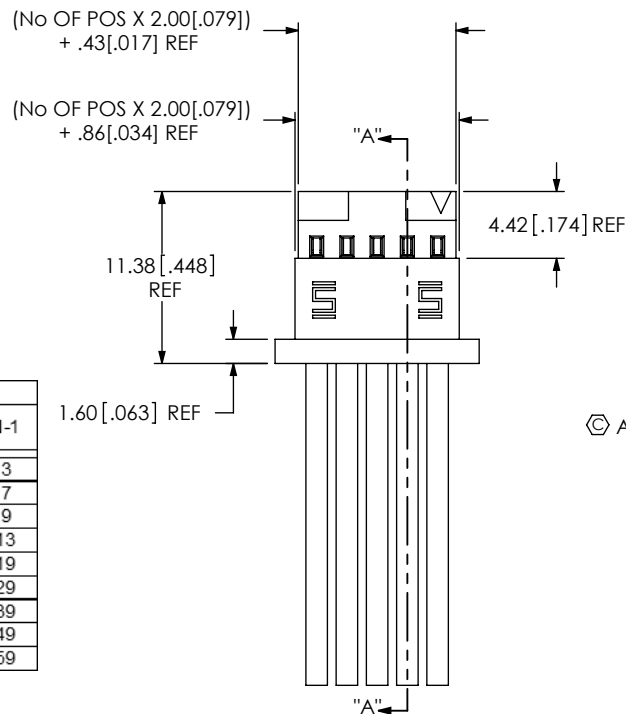
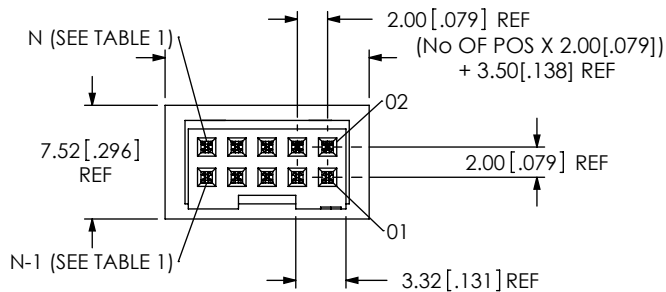


TABLE 1		
No OF POSITIONS	N	N-1
-02	4	3
-04	8	7
-05	10	9
-07	14	13
-10	20	19
-15	30	29
-20	40	39
-25	50	49
-30	60	59

## NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PULLOUT FORCE: 11.1N [2.5LBS].
3. CONTACTS MUST BE INSERTED UNTIL RETENTION FEATURES LOCK INTO PLACE.
4. ALL FINISHED GOODS ARE TO BE ELECTRICALLY TESTED INCLUDING HI-POT TEST AT 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH (1) LABEL-ET.
5. TINNED COPPER WIRE IS RoHS COMPLIANT.
6. PARTS TO BE LAYER PACKAGED.
7. END OF DISCRETE WIRE MUST FALL WITHIN THIS RANGE AFTER CRIMP.
8. FOR LENGTHS OF 12.00 INCHES AND LESS, TOLERANCE TO BE  $\pm 3.18[.125]$ , FOR LENGTHS GREATER THAN 12.00 INCHES, TOLERANCE TO BE  $\pm 2\%$
9. REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING AND ITS REQUIREMENTS.
10. 20.0N[4.5 LB] MIN WIRE CRIMP STRENGTH FOR 24-28 AWG AND 13.3N[3.0 LB] MIN WIRE CRIMP STRENGTH FOR 30AWG.

# S2SDX-XX-XXX-XX-XX.XX-XX-XXX

TEFLON CABLE OPTION  
-T: TEFLON (AVAILABLE WITH 24, 28 & 30AWG ONLY) (LEAVE BLANK FOR STANDARD PVC INSULATION)

No OF POSITIONS  
-02, -04, -05, -07, -10, -15, -20, -25, & -30 (PER ROW)  
AVAILABLE AS STANDARD  
-05 THRU -50 AVAILABLE AS ASO

WIRE GAUGE (AWG)  
-24, -26, -28, & 30

COLOR CODE:  
(LEAVE BLANK FOR ALL BLACK WIRE)  
-C: COLOR CODED WIRE, SEE TABLE 3, SHEET 3 FOR COLOR SEQUENCE (AVAILABLE WITH 24 AWG ONLY & NOT AVAILABLE WITH TEFLON)

PLATING SPECIFICATION  
-L: LIGHT SELECTIVE  
-S: SELECTIVE

-NXX OPTION (END 2)  
(ONLY AVAILABLE WITH -D, -DL, -DR, -DS)  
-NUS: NOTCH UP, STRAIGHT (PIN 1 TO N-1) (SEE FIG 2)  
-NDS: NOTCH DOWN, STRAIGHT (PIN 1 TO 2) (SEE FIG 4)  
-NUS: NOTCH UP, CROSSED (PIN 1 TO N) (SEE FIG 3)  
-NDX: NOTCH DOWN, CROSSED (PIN 1 TO 1) (SEE FIG 5)

END OPTION  
-S: SINGLE ENDED (SEE FIG 1)  
-D: DOUBLE ENDED (SEE FIG'S 2, 3, 4, 5, 6, & 7)  
-SR: SINGLE ENDED WITH RETENTION LATCH (SEE FIG 6)  
-DR: DOUBLE ENDED WITH RETENTION LATCH (SEE FIG 7)  
\*\*-SS: SINGLE ENDED WITH SCREW DOWN (SEE SHEET 4 FIG 8) ONLY AVAILABLE IN -10, -20, -30, & -40 POSITIONS  
\*\*-DS: DOUBLE ENDED WITH SCREW DOWN (SEE SHEET 4 FIG 9) ONLY AVAILABLE IN -10, -20, -30, & -40 POSITIONS

ASSEMBLED LENGTH  
SPECIFY IN INCHES  
SINGLE ENDED: 02.75 INCH MINIMUM  
DOUBLE ENDED: 02.75 INCH MINIMUM

\*\* = NOT RELEASED FOR PRODUCTION

ASSEMBLED LENGTH  
(SEE NOTE 8)

## SECTION "A"- "A"

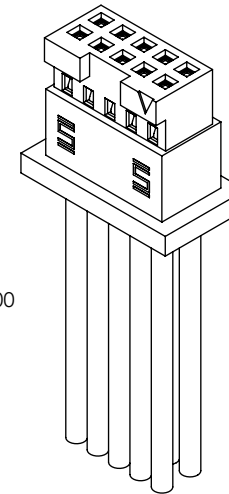
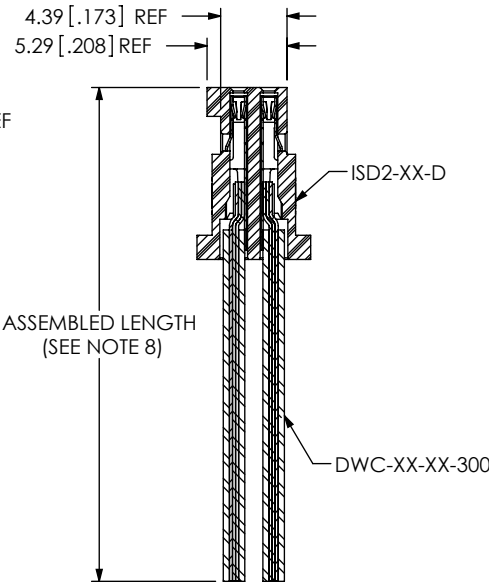


TABLE 2			
SERIES	AWG	CABLE	CONTACT
S2SD	24	DWC-24-XX-300	C-281-2426-X
S2SD	26	DWC-26-XX-300	C-281-2426-X
S2SD	28	DWC-28-XX-300	C-281-2830-X
S2SD	30	DWC-30-XX-300	C-281-2830-X
S2SDT	24	DWCT-24-01	C-281-2426-X
S2SDT	28	DWCT-28-01	C-281-2830-X
S2SDT	30	DWCT-30-01	C-281-2830-X

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X:  $\pm 0.3$  [.01]  
X.XX:  $\pm 0.13$  [.005]  
X.XXX:  $\pm 0.051$  [.0020]

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SHEET SCALE: 2:1

## MATERIAL:

INSULATOR: LCP, COLOR: BLACK  
CONTACT: BeCu  
CABLE INSULATION: SEE CALLOUT  
WIRE: TINNED COPPER

F:\DWG\MISC\MKTG\S2SDX-XX-XXX-XX-XX.XX-XXX-MKT.SLDDRW

# 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:  
2.00mm SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.

# S2SDX-XX-XXX-XX-XX.XX-XX-XXX

BY: J. BORGELT 2/20/09

SHEET 1 OF 4

FIG 2  
(S2SDX-05-28-X-XX.XX-D-NUS SHOWN)  
(SAME AS FIG. 1 EXCEPT AS SHOWN)  
(PIN 01 TO N-1)

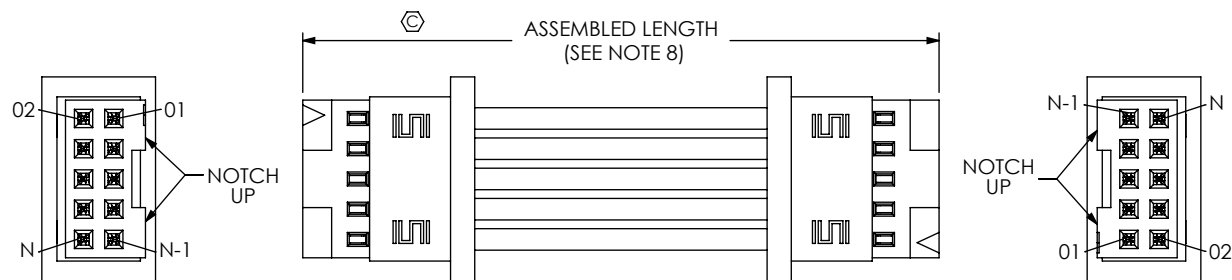


FIG 3  
(S2SDX-05-28-X-XX.XX-D-NUX SHOWN)  
(SAME AS FIG. 1 EXCEPT AS SHOWN)  
(PIN 01 TO N)

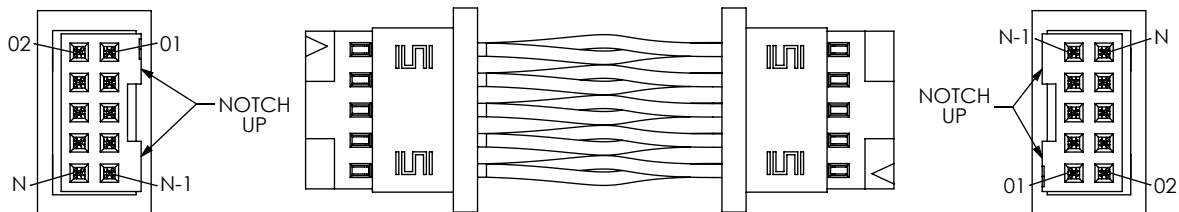


FIG 4  
(S2SDX-05-28-X-XX.XX-D-NDS SHOWN)  
(SAME AS FIG. 1 EXCEPT AS SHOWN)  
(PIN 01 TO 02)

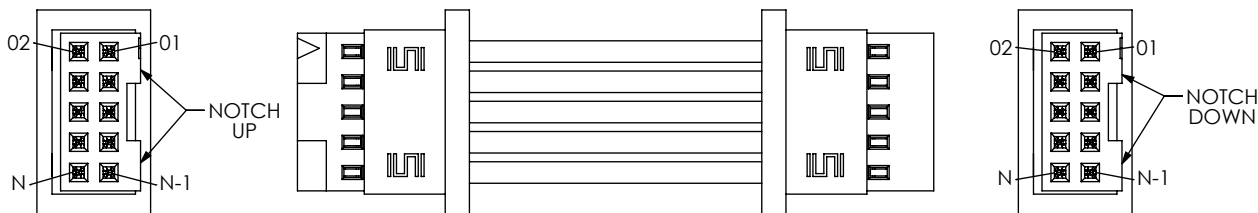


FIG 5  
(S2SDX-05-28-X-XX.XX-D-NDX SHOWN)  
(SAME AS FIG. 1 EXCEPT AS SHOWN)  
(PIN 01 TO 01)

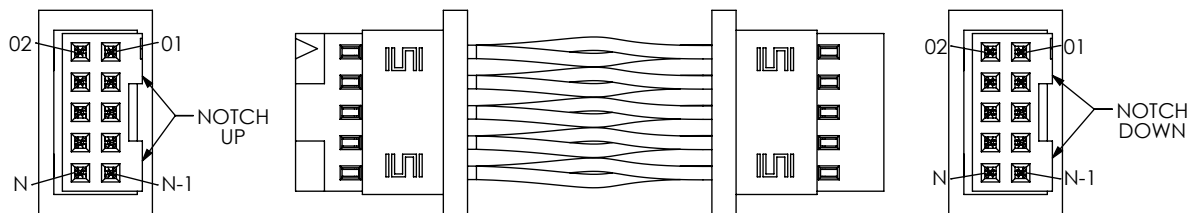


FIG 6  
(S2SDX-05-28-X-XX.XX-SR SHOWN)  
(SAME AS FIG. 1 EXCEPT AS SHOWN)

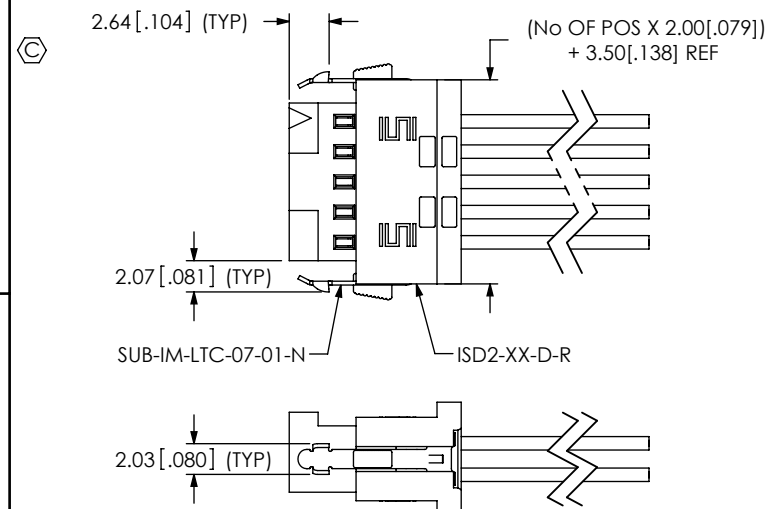
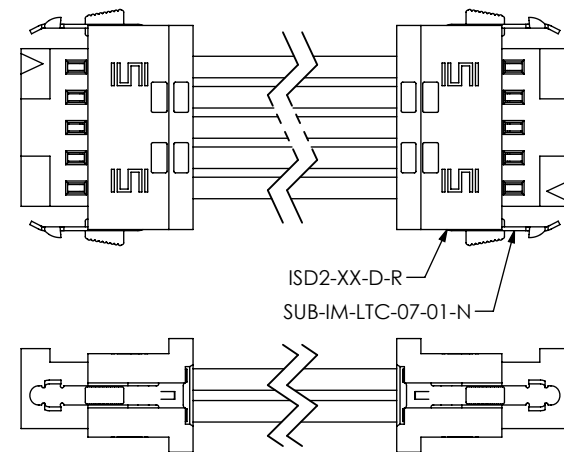


FIG 7  
(S2SDX-05-28-X-XX.XX-DR-DUS SHOWN)  
(SAME AS FIG. 6 EXCEPT AS SHOWN)



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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:  
2.00mm SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
**S2SDX-XX-XXX-XX-XX.XX-XX-XXX**

BY: J. BORGELT 2/20/09 SHEET 2 OF 4

IN-PROCESS 1  
(APPLIES TO -S, & -SR END OPTIONS ONLY)  
(TO BE BUILT DOUBLE-ENDED INITIALLY  
FOR E-TEST AND THEN SEPERATED)

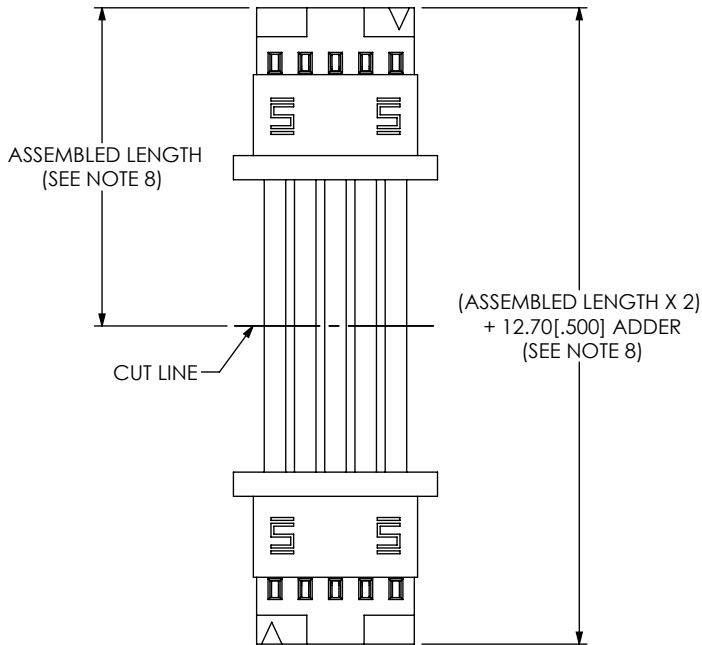


TABLE 3										
COLOR SEQUENCE										
	BROWN	RED	ORANGE	YELLOW	GREEN	VIOLET	GRAY	WHITE	BLACK	BLUE
POS #	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	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

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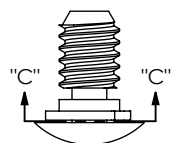
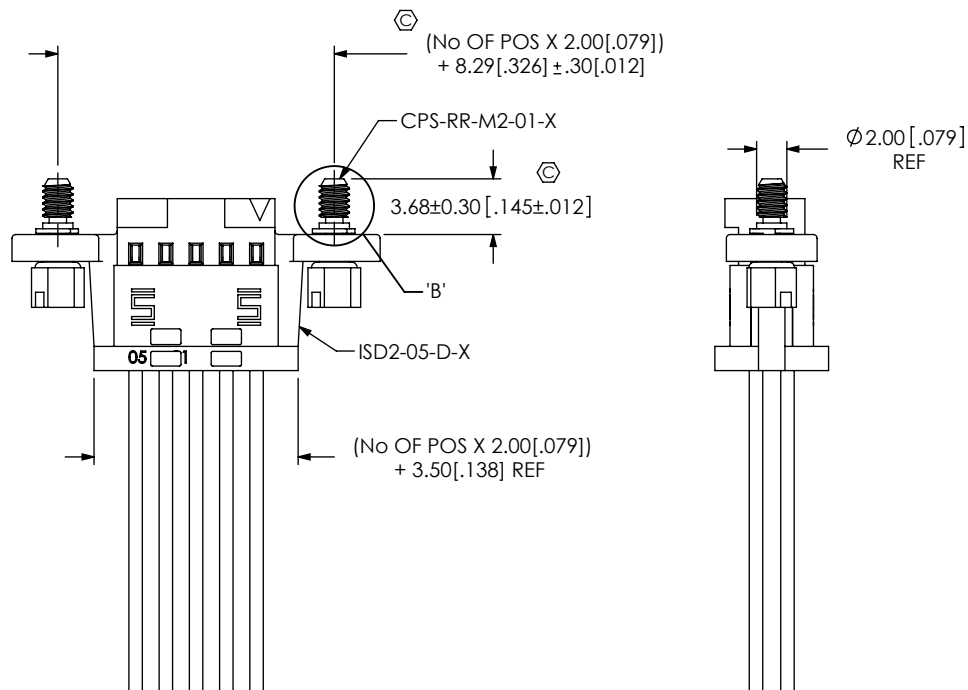
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DWG. NO.  
S2SDX-XX-XXX-XX-XX.XX-XX-XXX

BY: J. BORGELT 2/20/09 SHEET 3 OF 4

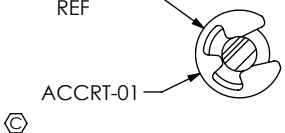
FIG 8

-SS: SINGLE ENDED WITH SCREW DOWN  
(S2SDX-05-28-X-XX.XX-SS SHOWN)  
(ONLY AVAILABLE IN -10, -20, -30 & -40 POSITIONS)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
NOT RELEASED FOR PRODUCTION



DETAIL 'B'  
SCALE 4 : 1

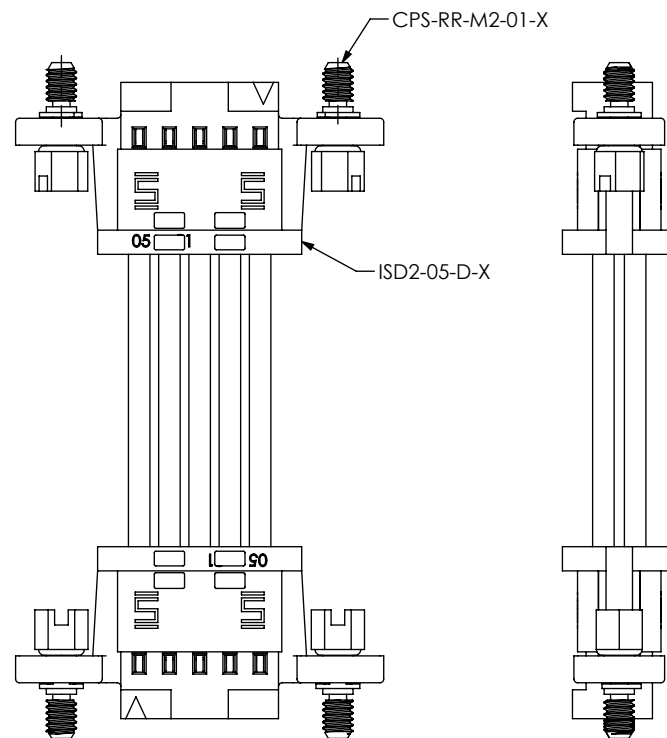
R1.45[.057]  
REF



SECTION "C"- "C"  
SCALE 4 : 1

FIG 9

-DS: DOUBLE ENDED WITH SCREW DOWN  
(S2SDX-05-28-X-XX.XX-DS-NUS SHOWN)  
(ONLY AVAILABLE IN -10, -20, -30 & -40 POSITIONS)  
(SAME AS FIG 8, EXCEPT AS SHOWN)  
NOT RELEASED FOR PRODUCTION



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