

DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]

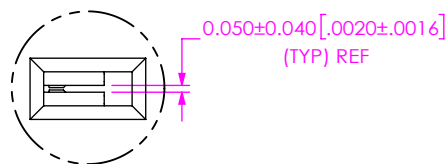
PATENT PENDING

DO NOT  
SCALE FROM  
THIS PRINT

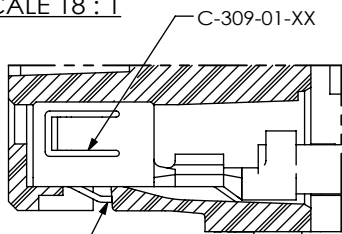
**TABLE 1**

No OF POS	N	N-1
-02	04	03
-03	06	05
-04	08	07
-05	10	09
-06	12	11
-07	14	13
-08	16	15
-09	18	17
-10	20	19
** -11	22	21
** -12	24	23
** -13	26	25
** -14	28	27
** -15	30	29
** -16	32	31
** -17	34	33
** -18	36	35
** -19	38	37
** -20	40	39

(\*\* = NOT RELEASED FOR PRODUCTION)

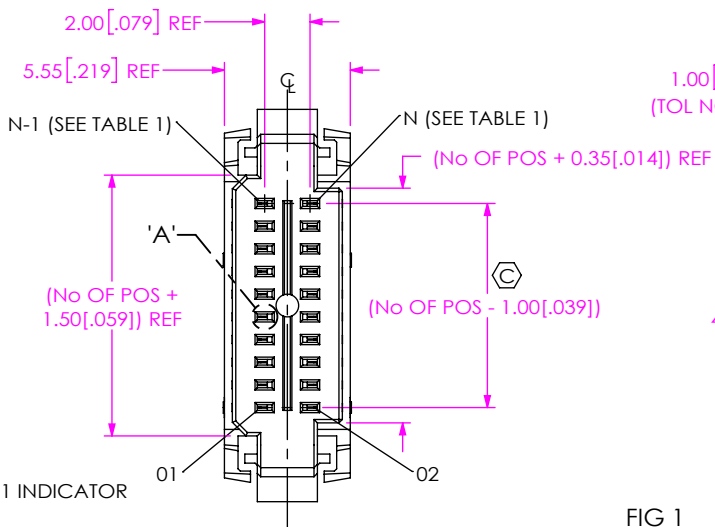
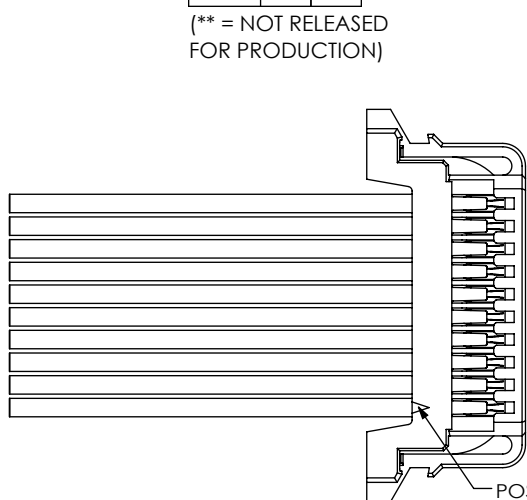


DETAIL 'A'  
SCALE 18 : 1



DETAIL 'B'  
SCALE 8 : 1

SEE NOTE 6



S1SDX-XX-XXX-XX-XX.XX-LX

FEP CABLE OPTION  
-T: FEP INSULATION  
(ONLY AVAILABLE IN 28 AWG)  
LEAVE BLANK FOR PVC  
(SEE NOTE 8)

No OF POSITIONS (PER ROW)  
-02 THRU -10  
\*\*-11 THRU \*\*-20

WIRE GAUGE (AWG)  
-28, -30

COLOR CODE  
-C COLOR CODE WIRE  
(SEE TABLE 4, SHT 2)  
LEAVE BLANK FOR STANDARD WIRE  
(SEE TABLE 2, SHT 2)  
(NOT AVAILABLE WITH S1SDT)

(\*\* = NOT RELEASED FOR PRODUCTION)

PINOUT  
(LEAVE BLANK FOR SINGLE END ASSEMBLY)  
-1: "N" INDICATOR DOWN, CROSSED  
PIN 1 TO PIN 1 (SEE FIG 2, SHT 2)  
-2: "N" INDICATOR DOWN, STRAIGHT  
PIN 1 TO PIN 2 (SEE FIG 3, SHT 2)  
-3: "N" INDICATOR UP, CROSSED  
PIN 1 TO PIN N (SEE FIG 4, SHT 3)  
-4: "N" INDICATOR UP, STRAIGHT  
PIN 1 TO PIN N-1 (SEE FIG 5, SHT 3)

LATCH OPTION  
-L: PLASTIC LATCH

ASSEMBLED LENGTH  
(SPECIFY IN INCHES) 01.80 IN MINIMUM

PLATING SPECIFICATION  
-T: BRIGHT ACID TIN TIN CONTACT AND TAIL  
-GF: 3μ" GOLD CONTACT AND TAIL

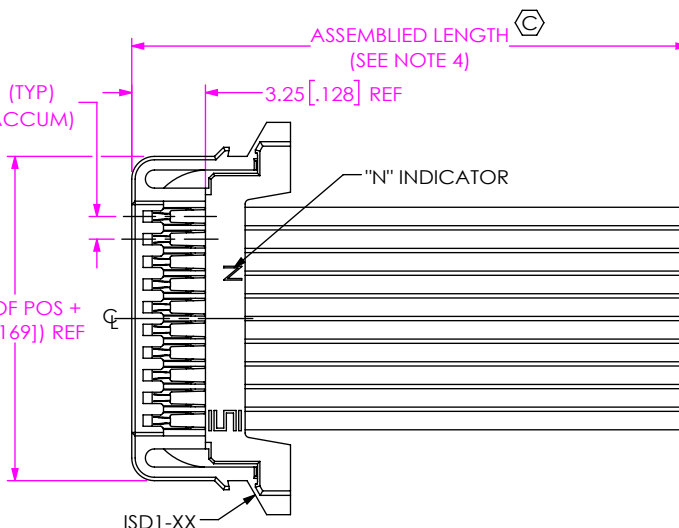
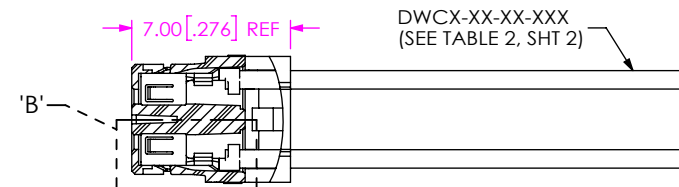


FIG 1

S1SD-10-XXX-XX-XX.XX-L SHOWN

NOTES:

- ⊕ REPRESENTS A CRITICAL DIMENSION.
- MINIMUM PUSHOUT FORCE: SIGNAL: 4.445N[1.0 LB].
- PARTS TO BE PACKAGED IN BAG.
- FOR ASSEMBLED LENGTHS LESS THAN 12.0[305], TOLERANCE SHALL BE ± 3.18[.125], FOR OTHER LENGTHS, TOLERANCE SHALL BE ± 2%.
- REFER TO CRIMP SPECIFICATIONS FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING, AND ITS REQUIREMENTS.
- CONTACT MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS IN PLACE.
- ALL FINISHED GOODS ARE TO BE ELECTRICALLY TESTED INCLUDING HI-POT TEST AT 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL WITH 1 ET STAMP ON THE BODY.
- ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.
- REFER TO CRIMP SPECIFICATIONS PRINT FOR STRIP AND CRIMP DIMENSIONS, TOLERANCES, TOOLING, AND ITS REQUIREMENTS.
- CUT LENGTH IS ASSEMBLY LENGTH MINUS OVERALL LENGTH SUBTRACTOR.
- TABLE 3 IS DELETED AND REPLACED WITH EQUATIONS.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [01] 2°  
X.XX: ±0.13 [005]  
X.XXX: ±0.051 [0020]

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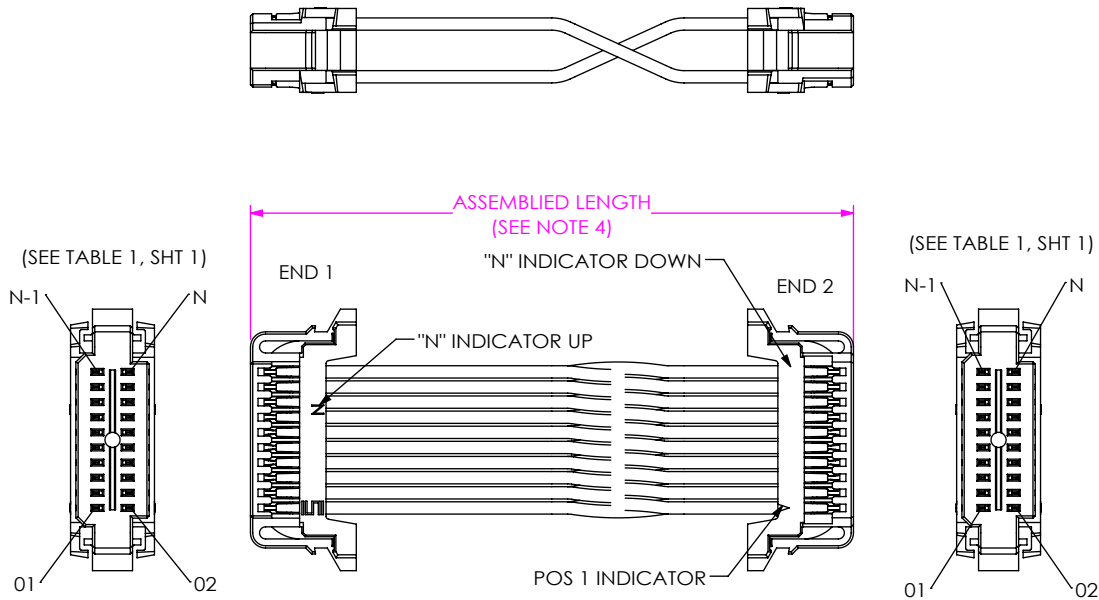
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INSULATOR: NYLON UL94V-2, COLOR: WHITE  
CONTACT: PHOS BRONZE

F:\DWG\MISC\MKTG\S1SDX-XX-XXX-XX-XX.XX-LX-MKT.SLDDRW



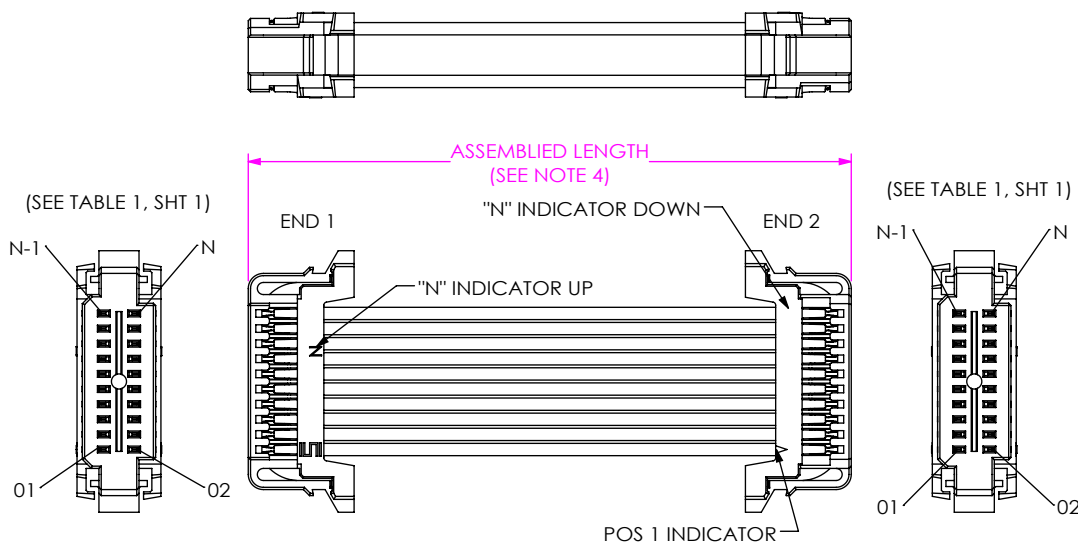
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
1MM S1SD CABLE ASSEMBLY  
DWG. NO.  
S1SDX-XX-XXX-XX-XX.XX-LX  
BY: VICKY Z 06/22/2013 SHEET 1 OF 3



**FIG 2**  
S1SD-10-XXX-XX-XX.XX-L1 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 2		
WIRE GAUGE	INSULATION	WIRE PART NUMBER
-28	PVC	DWC-28-10-300
	FEP	DWCT-28-01-TC
-30	PVC	DWC-30-10-300



**FIG 3**  
S1SD-10-XXX-XX-XX.XX-L2 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 4										
S1SD COLOR CODED WIRE SEQUENCE										
PIN#	COLOR									
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK
	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
28 AWG WIRE	DWC-28-01-300	DWC-28-02-300	DWC-28-03-300	DWC-28-04-300	DWC-28-05-300	DWC-28-13-300	DWC-28-07-300	DWC-28-08-300	DWC-28-09-300	DWC-28-10-300
30 AWG WIRE	DWC-30-01-300	DWC-30-02-300	DWC-30-03-300	DWC-30-04-300	DWC-30-05-300	DWC-30-13-300	DWC-30-07-300	DWC-30-08-300	DWC-30-09-300	DWC-30-10-300

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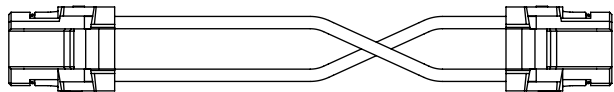
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SHEET SCALE: 2:1

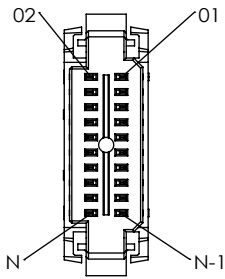
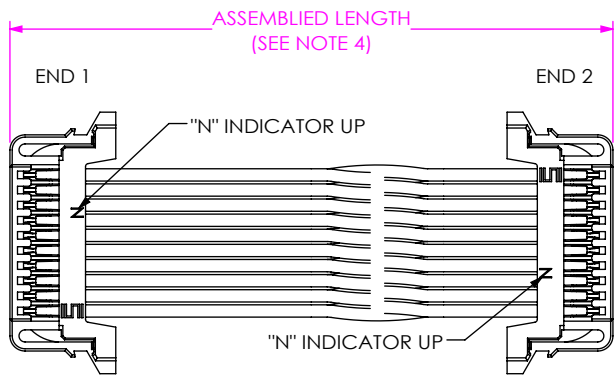
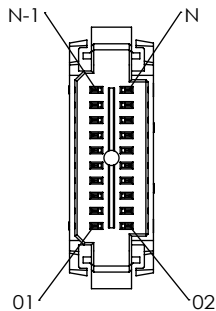
DESCRIPTION:  
1MM S1SD CABLE ASSEMBLY

DWG. NO.  
S1SDX-XX-XXX-XX-XX.XX-LX

BY: VICKY Z 06/22/2013 SHEET 2 OF 3



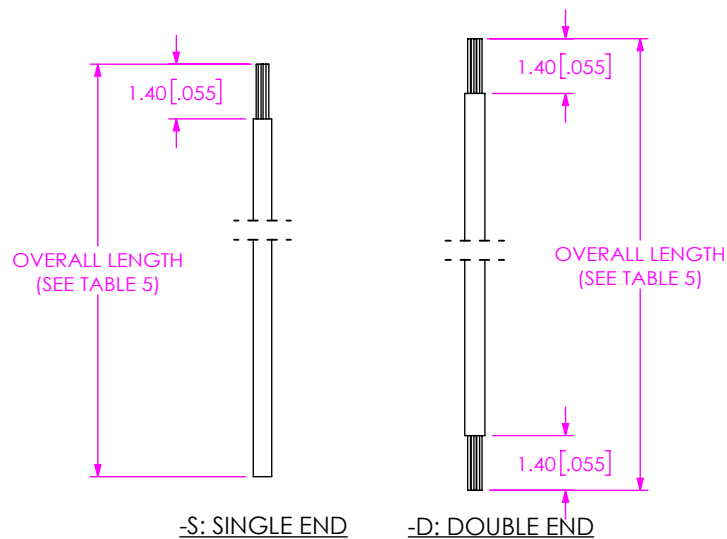
(SEE TABLE 1, SHT 1)



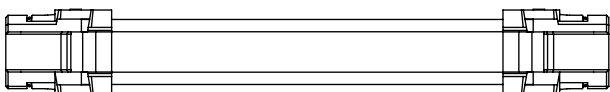
(SEE TABLE 1, SHT 1)

**FIG 4**  
S1SD-10-XXX-XX-XX.XX-L3 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

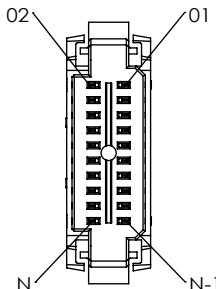
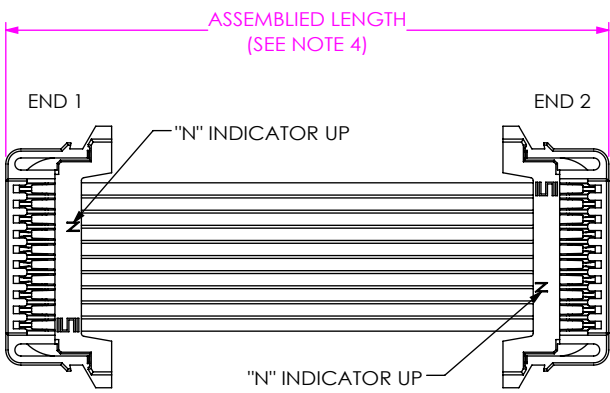
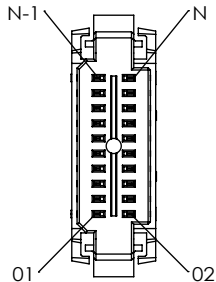
CABLE CUT IN-PROCESS



**-S: SINGLE END**      **-D: DOUBLE END**



(SEE TABLE 1, SHT 1)



(SEE TABLE 1, SHT 1)

**FIG 5**  
S1SD-10-XXX-XX-XX.XX-L4 SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 5 ( OVERALL LENGTH SUBTRACTORS ) (SEE NOTE 10)	
	LENGTH
-S: SINGLE END	2.79 [.110]
-D: DOUBLE END	5.59 [.220]

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SHEET SCALE: 2:1

DESCRIPTION: 1MM S1SD CABLE ASSEMBLY

DWG. NO. S1SDX-XX-XXX-XX-XX.XX-LX

BY: VICKY Z 06/22/2013 SHEET 3 OF 3