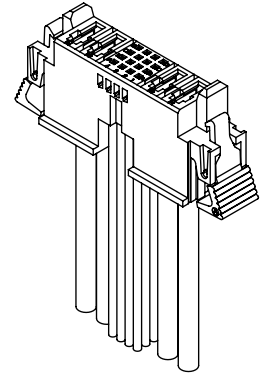
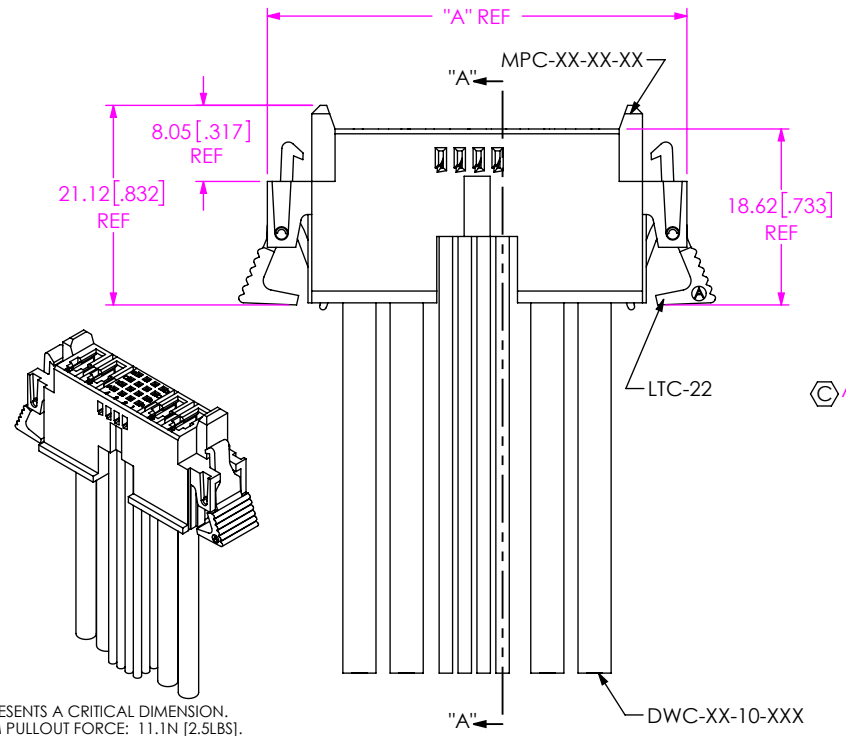
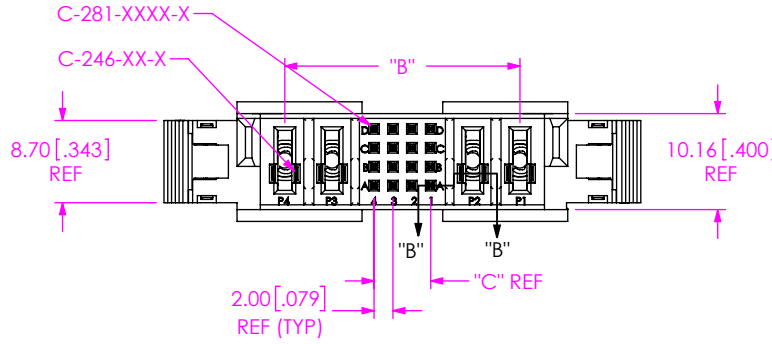


**DESIGNED & DIMENSIONED
IN MILLIMETERS[INCHES]**

SEE NOTE 12

DO NOT
SCALE FROM
THIS PRINT



MPCC-X-XX-X-X-XX-XX.XX-X-XXX

POWER PINS
(PER END)
-1, -2

SIGNAL PINS
(SEE TABLE 2, SHT 2 FOR
AVAILABLE COMBINATIONS)
-16 (4x4)
-24 (4x6)

POWER PINS
(PER END)
-1, -2

PLATING

-L: **POWER PINS:** 10µ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT ACID ON TAIL
SIGNAL PINS: 10µ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT ACID TIN ON TAIL
 -T: **POWER PINS:** BRIGHT ACID OVER ENTIRE PIN
SIGNAL PINS: 10µ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT ACID TIN

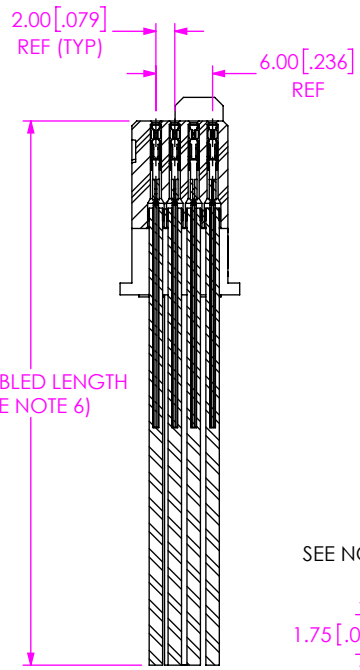
XXX OPTION (END 2)
(ONLY AVAILABLE WITH -D, LEAVE BLANK FOR -S OPTION)
(APPLIES TO SIGNALS ONLY, POWER STRAIGHT THRU)
 -NUS: NOTCH UP, STRAIGHT (PIN A1 TO PIN AX)
 *NDS: NOTCH DOWN, STRAIGHT (PIN A1 TO PIN A4)
 *NUS: NOTCH UP, CROSSED (PIN A1 TO PIN DX)
 *NDX: NOTCH DOWN, CROSSED (PIN A1 TO PIN A1)

ASSEMBLED LENGTH
(INCHES)
04.00 INCH MINIMUM

END OPTION
-S: SINGLE ENDED
-D: DOUBLE ENDED
(MUST CHOOSE FROM -NXX OPTIONS)

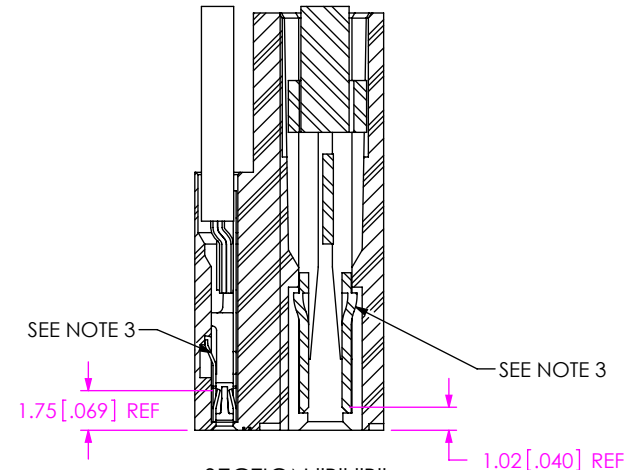
LEAD STYLE

- 44 (14 AWG PWR, 24 AWG SIG)
- 46 (14 AWG PWR, 26 AWG SIG)
- 48 (14 AWG PWR, 28 AWG SIG)
- 40 (14 AWG PWR, 30 AWG SIG)
- 64 (16 AWG PWR, 24 AWG SIG)
- 66 (16 AWG PWR, 26 AWG SIG)
- 68 (16 AWG PWR, 28 AWG SIG)
- 60 (16 AWG PWR, 30 AWG SIG)



SECTION "A"-"A"
SCALE 1.25 : 1

*** = NOT RELEASED**



SECTION "B"-"B"
SCALE 3 : 1

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, MARK EACH ASSEMBLY PER INSTRUCTIONS REFERENCED IN CO-(AD-ID)-WI-3092-M.
5. TINNED COPPER WIRE IS ROHS COMPLIANT.
6. FOR LENGTHS OF 12.00 INCHES AND LESS, TOLERANCE TO BE ± 3.18 [125], FOR LENGTHS GREATER THAN 12.00 INCHES, TOLERANCE TO BE ± 2%.
7. REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING, AND ITS REQUIREMENTS.
8. MINIMUM WIRE CRIMP STRENGTH: 24-28 AWG: 20.0N[4.5LB]
30 AWG: 13.3N[3.0 LB]
9. MINIMUM LATCH RETENTION: 4.4 N [1 LB].
10. MINIMUM DWC RETENTION: 22.2 N [5.0 LB]
11. PARTS TO BE LAYER PACKAGED. COVER EACH CABLE END WITH BAG ASBBLT X.X x X.X.
FOR VERY SHORT CABLES THAT WILL FIT 100% WITHIN ONE BAG, USE ONLY ONE BAG AND SEAL.
12. ALL DIMS SHOWN IN METRIC EXCEPT FOR ASSEMBLY LENGTH ON PART CALL OUT.
13. NOT FOR SALE AS COMPONENTS; SOLD AS A CABLE ASSEMBLY ONLY.
14. CUT LENGTH IS ASSEMBLY LENGTH MINUS CUT SUBTRACTORS.

FIG 1
MPCC-2-16-2-X-XX-XX.XX-S SHOWN

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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MATERIAL:
INSULATOR: LCP UL 94V-0, COLOR: BLACK
CONTACT: BeCu
LATCH: NYLON
WIRE: BLACK PVC COATED TINNED COPPER

DO NOT SCALE DRAWING

SHEET SCALE: 1.5:1



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

DESCRIPTION:
MINI POWER COMBO CABLE ASSEMBLY
DWG. NO.
MPCC-X-XX-X-X-XX-XX.XX-X-XXX

TABLE 2							
PART NUMBER	BODY	"A"		"B"		"C"	
MPCC-1-16-1-X-XX-XX.XX-X-XXX	MPC-1-16-1	34.55	[1.360]	14.89	[0.586]	6.00	[0.236]
MPCC-1-24-1-X-XX-XX.XX-X-XXX	MPC-1-24-1	38.55	[1.518]	18.89	[0.744]	10.00	[0.394]
MPCC-2-16-2-X-XX-XX.XX-X-XXX	MPC-2-16-2	44.55	[1.754]	24.89	[0.980]	6.00	[0.236]
MPCC-2-24-2-X-XX-XX.XX-X-XXX	MPC-2-24-2	48.55	[1.911]	28.89	[1.137]	10.00	[0.394]

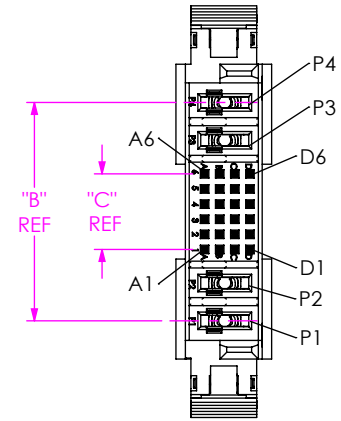
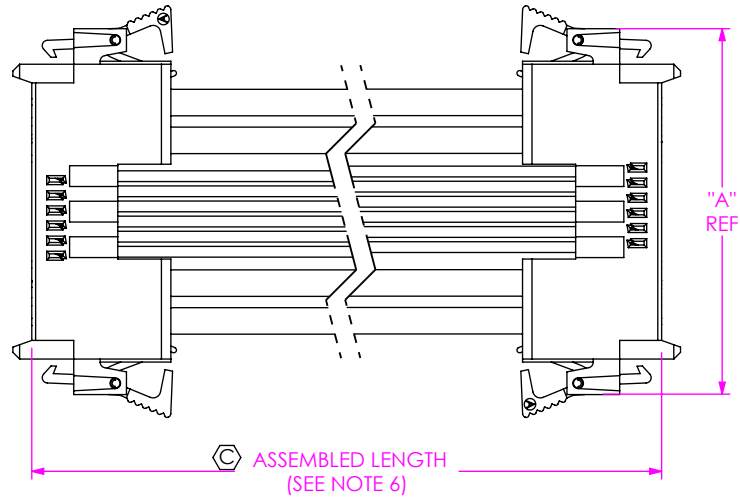
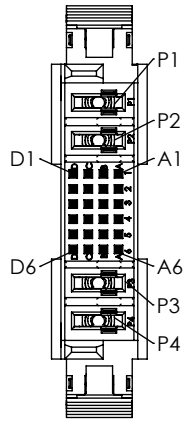


FIG 3
MPCC-2-24-2-X-XX-XX.XX-D-NUS SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1 & 2)

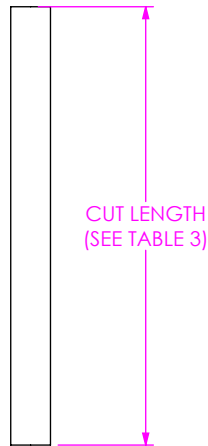


FIG 4

TABLE 3 CUT SUBTRACTORS (SEE NOTE 14)		
	-S: Single End	-D: Double End
SIGNAL WIRE	0.113	0.226
POWER WIRE	0.312	0.624

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DO NOT SCALE DRAWING

SHEET SCALE: 1:1



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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
MINI POWER COMBO CABLE ASSEMBLY

DWG. NO.
MPCC-X-XX-X-X-XX-XX.XX-X-XXX

BY: D.SCHMELZ 05/26/2010 SHEET 2 OF 4

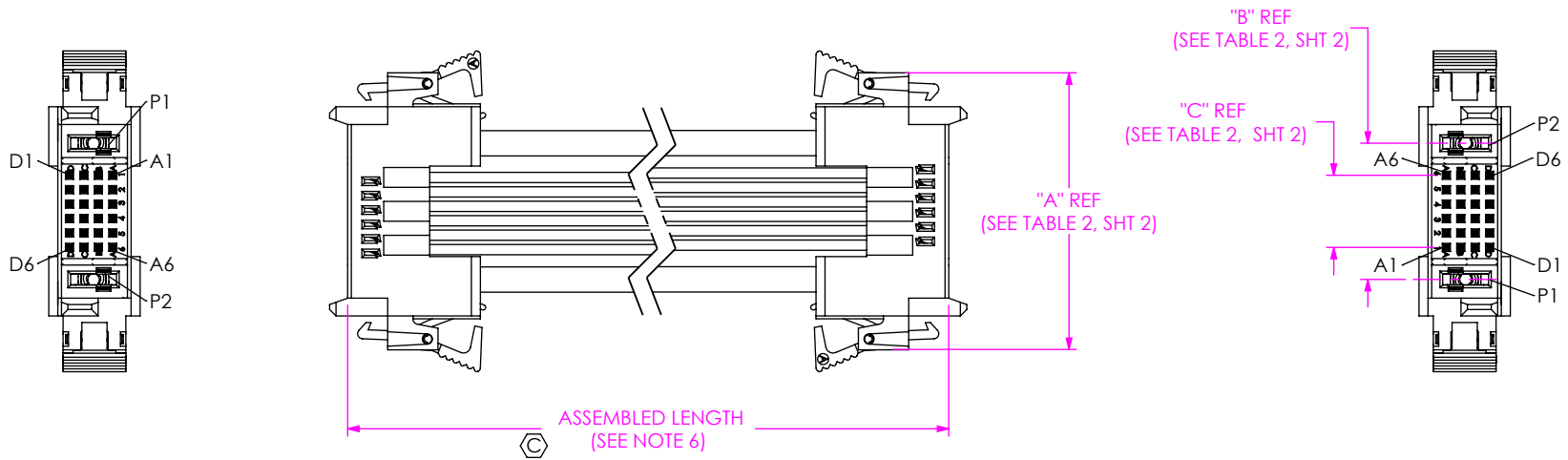


FIG 5
 MPCC-1-24-1-X-XX-XX.XX-D-NUS SHOWN
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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SHEET SCALE: 1.5:1

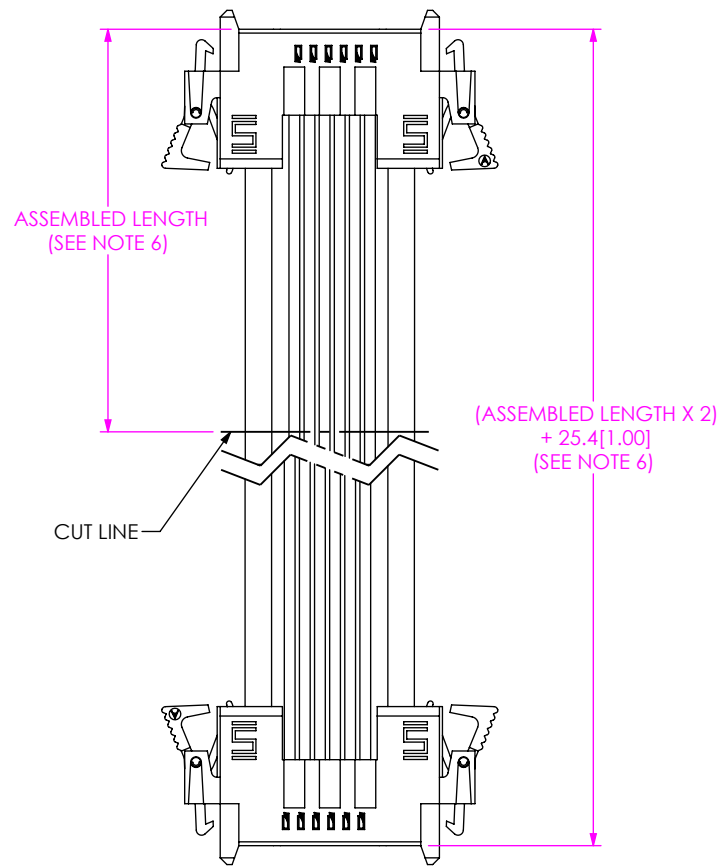


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BY: D.SCHMELZ 05/26/2010 SHEET 3 OF 4



IN-PROCESS 1
 (APPLIES TO -S END OPTION ONLY)
 (TO BE BUILT DOUBLE-ENDED INITIALLY FOR E-TEST,
 THEN CUT IN HALF AND TRIMMED TO LENGTH)

TABLE 1

LEAD STYLE	PWR/SIG	AWG	DWC-XX-10-XXX	CONTACT
44	PWR	14	DWC-14-10-600	C-246-01-X
	SIG	24	DWC-24-10-XXX	C-281-2426-X
46	PWR	14	DWC-14-10-600	C-246-01-X
	SIG	26	DWC-26-10-XXX	C-281-2426-X
48	PWR	14	DWC-14-10-600	C-246-01-X
	SIG	28	DWC-28-10-XXX	C-281-2830-X
40	PWR	14	DWC-14-10-600	C-246-01-X
	SIG	30	DWC-30-10-XXX	C-281-2830-X
64	PWR	16	DWC-16-10-600	C-246-01-X
	SIG	24	DWC-24-10-XXX	C-281-2426-X
66	PWR	16	DWC-16-10-600	C-246-01-X
	SIG	26	DWC-26-10-XXX	C-281-2426-X
68	PWR	16	DWC-16-10-600	C-246-01-X
	SIG	28	DWC-28-10-XXX	C-281-2830-X
60	PWR	16	DWC-16-10-600	C-246-01-X
	SIG	30	DWC-30-10-XXX	C-281-2830-X

c:\enterprise\vault\DWG\MISC\MKTG\MPCC-X-XX-X-X-XX-XX-X-XXX-MKT.SLDDRW

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