



Laboratoire d'Annecy de Physique des Particules

Outillage Montage

Intégration – Pince Z-Ray

Mercredi 1^{er} avril 2020

Allemandou Nicolas - LAPP



Outil de communication

<https://chat.lapp.in2p3.fr/group/3z6htqN7imvBf2tT2>

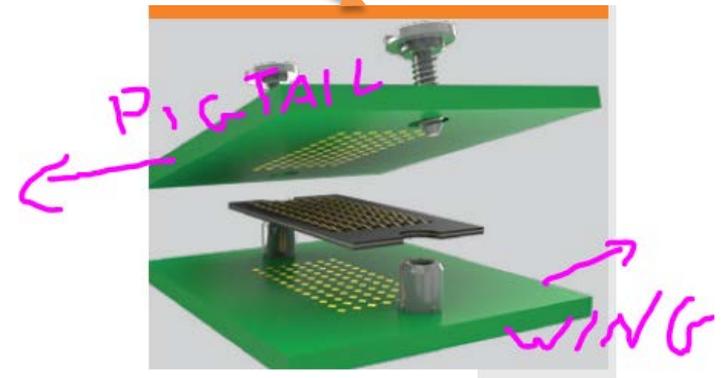
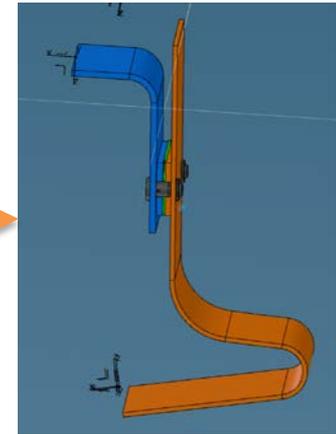
Step dessiné par Jean-Marc

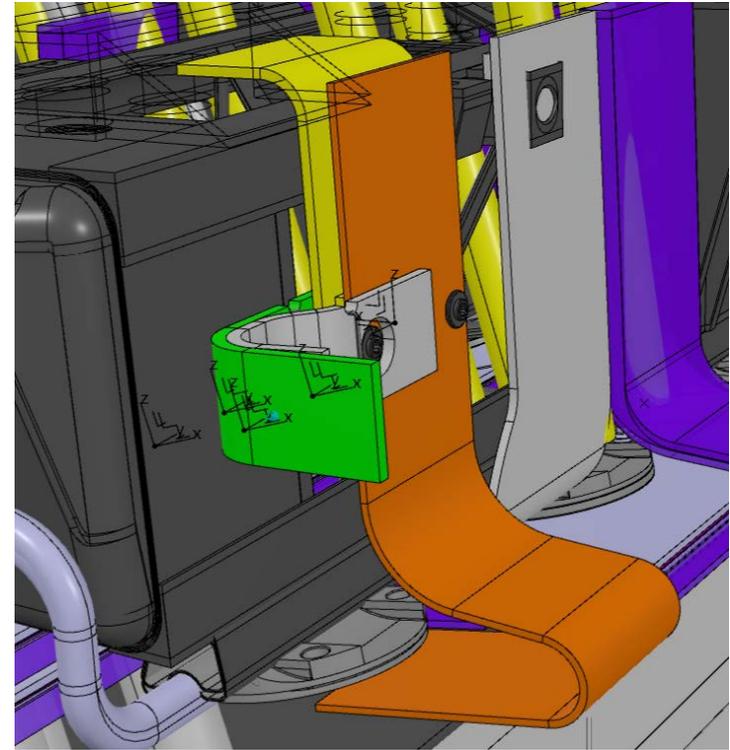
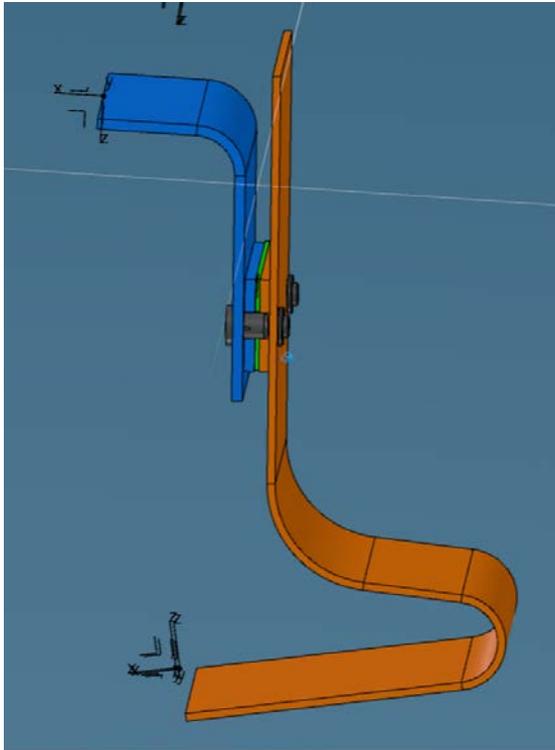
Connecteur en question : connecteur ZA8H-12-0.33-Z-07

<https://www.samtec.com/products/za8h>

Encombrement vue de dessus (coté PP0)

3mm entre le Pigtail et le Longeron

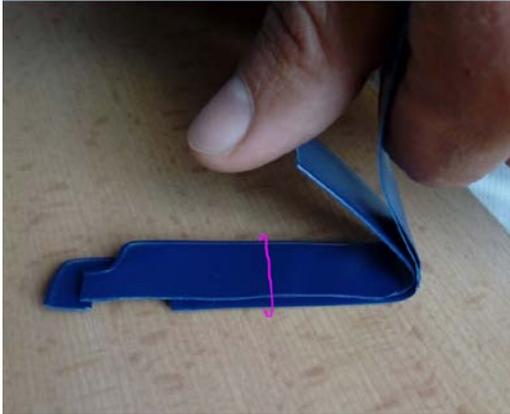




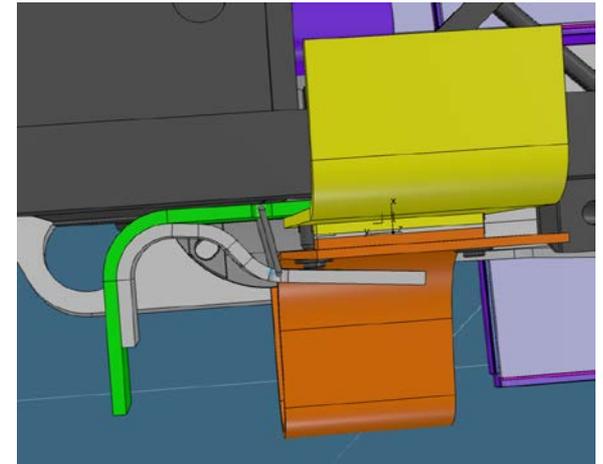
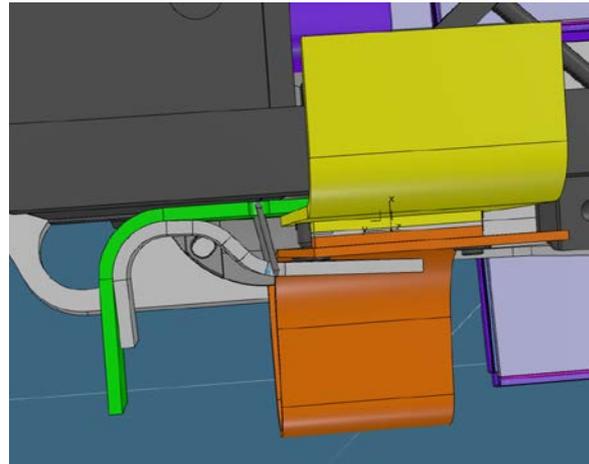
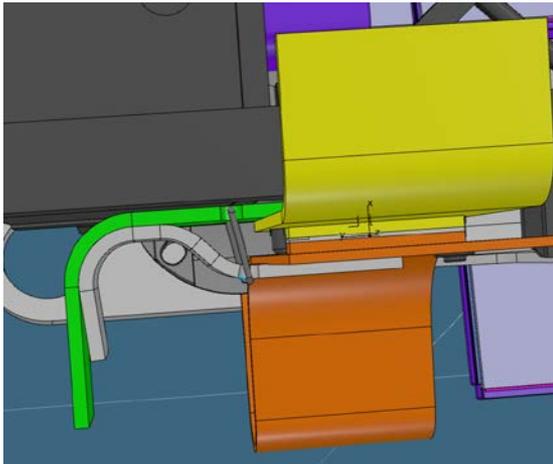
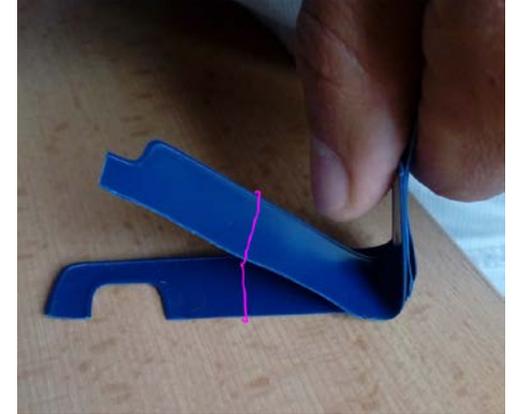
Utilisation d'une « pince à Z-Ray » manipulable d'une seule main par pincement.

Gaucher ou Droitier

On pince en serrant entre l'index et le pouce
Le rose est un élastique qui fait le retour de force



Quelle force mettre ?



F-219 (Rev 21JAN20)

ZRAY

(0.80 mm) .0315"

HIGH-SPEED DUAL COMPRESSION ARRAYS

ZA8H SERIES

SPECIFICATIONS
For complete specifications and recommended PCB layouts see www.samtec.com?ZA8H
Contact Material: BeCu
Plating: Au over 50 μ" (1.27 μm) Ni
Core: Polyimide
Overlay: Polyimide
Current Plating: Testing Now
Operating Temp Range: Testing Now
RoHS Compliant: Yes

APPLICATION
Extreme low profile provides shortest signal path
30 g normal force with (0.20 mm) .008" contact deflection
Dual compression
Up to 168 contacts
(0.33 mm) .013" height
BeCu contacts

HIGH-SPEED CHANNEL PERFORMANCE
0.33 mm Stack Height
Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com
NRZ
56 Gbps

SIGNAL MAPPING
To meet 56 Gbps performance, footprint must meet specific signal/ground configurations. Contact the Signal Integrity Group at SIG@samtec.com for recommended signal routing.

ZA8H	NO. OF POSITIONS	HEIGHT	PLATING	ROWS
	-06, -12, -24 (See Chart Below For Number Of Pairs)	-0.33 = (0.33 mm) .013" Height	-Z = 6 μ" (0.15 μm) Gold on contact over 40 μ" to 100 μ" (1.02 μm-2.54 μm) Nickel	-04 = Four Rows -07 = Seven Rows

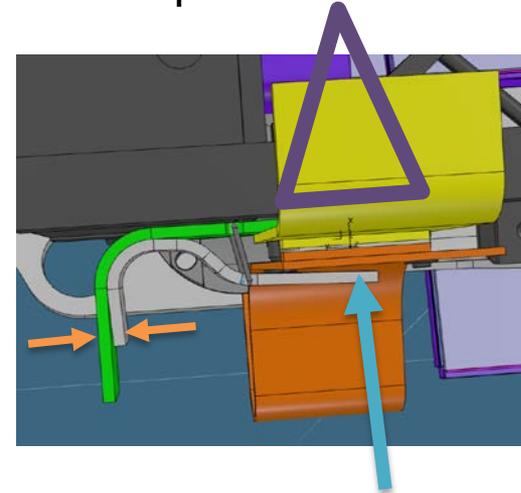
ARRAY	PAIR COUNT
06 X 04	2
12 X 04	4
12 X 07	8
24 X 07	16

12 X 7 SHOWN

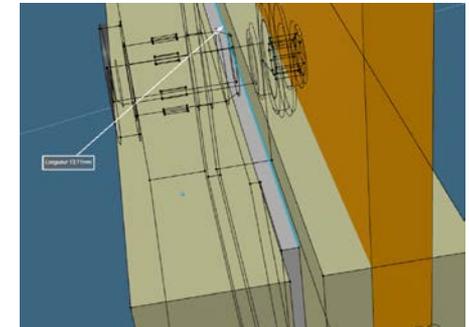
NO. OF POSITIONS	A	B
-06	(7.80) .267	(4.000) .1575
-12	(12.60) .496	(8.800) .3465
-24	(22.20) .874	(18.400) .7244

NO. OF ROWS	C	D	E
-04	(4.70) .185	(2.400) .0945	(1.75) .069
-07	(7.10) .280	(4.800) .1890	(2.35) .116

Pression sur 1 contact
12x7x30g= 2,52 Kg
Est-ce une pression à exercer par la pince OU les vis ?



Fichier
Standard // JMN
?
Sur mesure d'après
le PDR,
mais 13,11 ?



Des questions ?