

Production Update

RIKEN/RBRC

Itaru Nakagawa

1.1m Bus Extender

Production	2021/11	2022/12	1	2	3	4	5	6	
I (20)	→								
II (40)			→						
III (70)				→					

- The connector assembly of 20 Production-I cables were completed and tested all OK. To be delivered soon.
 - 1 will be tested at RIKEN and electric performance measurements at TIRI
 - 3 will be shipped to NWU for the cosmic ray measurement
 - 16 will be shipped to BNL (together with conversion cables) for the barrel assembly. Expected delivery to BNL in early February.
- Production-II will be started next week.
- Production-III may have a bit longer lead-time to procure LCP sheets.

Signal Layer Inspection in Bus Extender Production

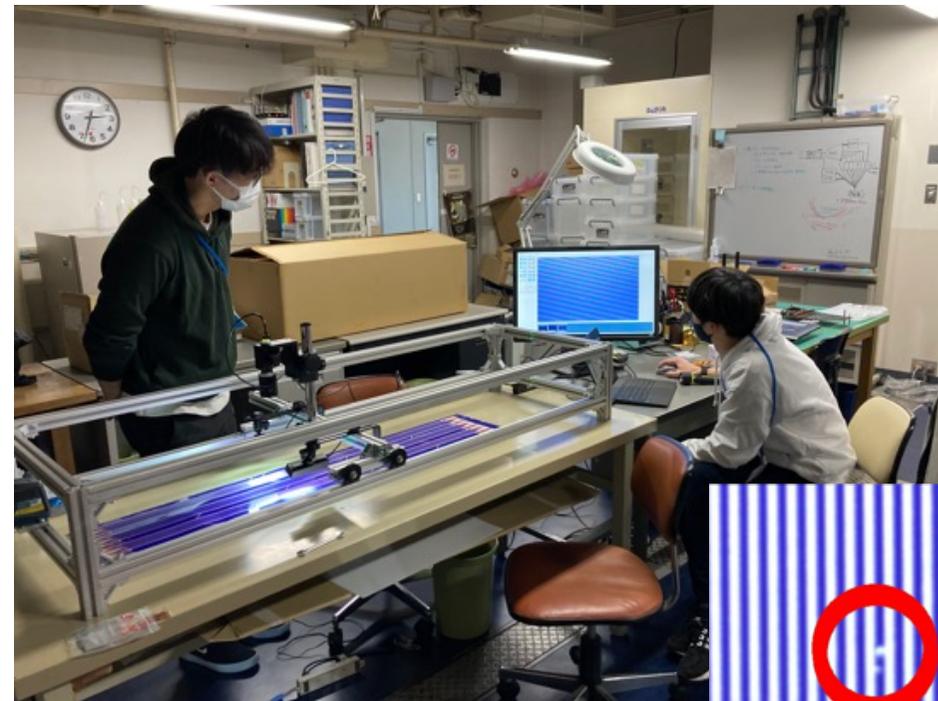
Improve the yield rate and reduce the lead-time for the production.

Production-I (2021.November) Print Elec. Lab.



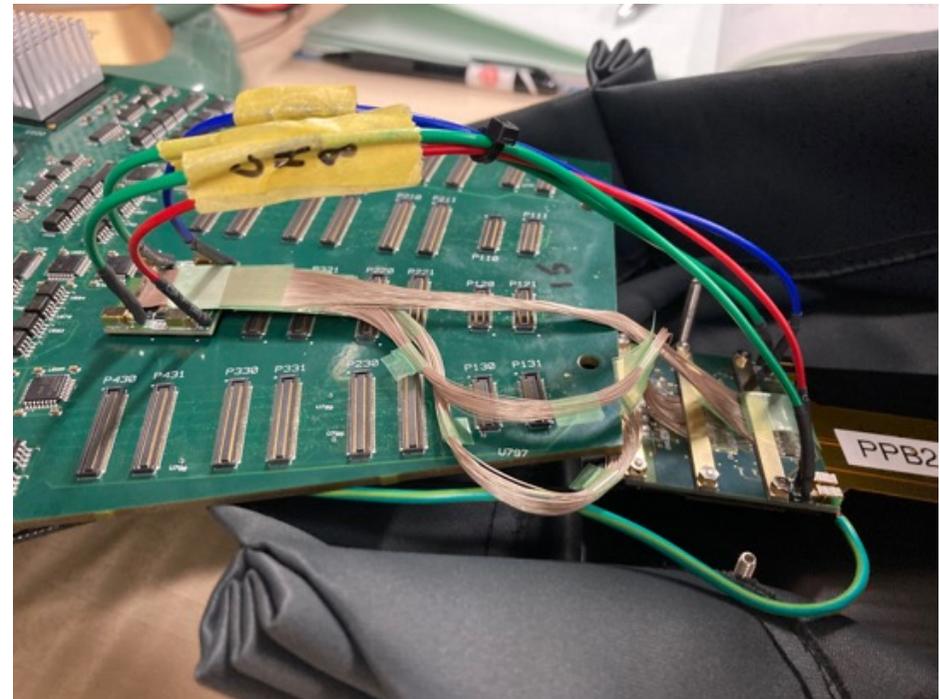
Inspection process is greatly improved, but still overlooking by 1 error/sheet.

Inspection System Upgrade at RIKEN



Developing software application to find abnormal pattern.

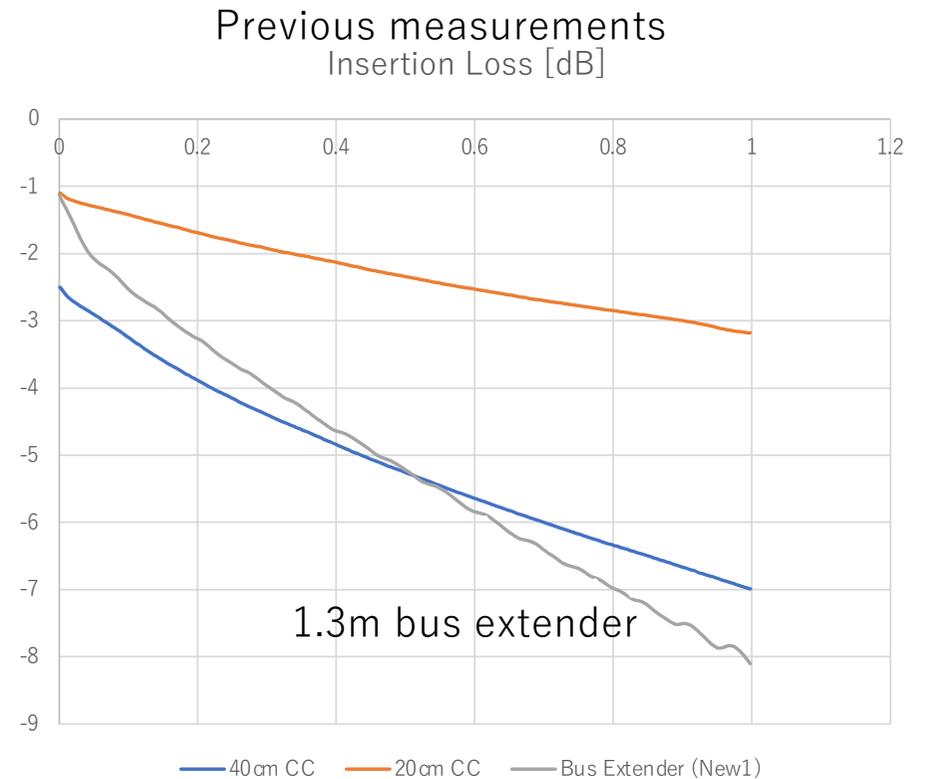
mCoax Conversion Cable



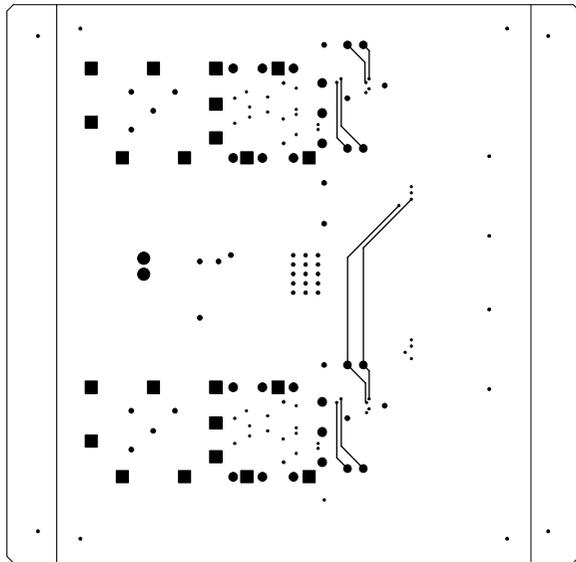
- After some iteration with Hayashi-REPIC co. for fixing inconsistent electrical contact mapping compared to FPC, testing cable at RIKEN is almost done.
- Details are to be reported by Hikaru Imai shortly.

Evaluation of new Cables at TIRI

- The cable is then handed to TIRI for the signal transmission performance measurements together with 1.1m bus extender.



Beam Clock Distribution Board



2022.01.11 Kawasaki

126Y_267963 REV B LAYER3 CONTROLLED SIGNAL

- Draft board layout design is now under my check.
- Requested the impedance matching
- Meeting with ARS engineer next week to finalize the design.
- Contract for the fabrication next.