



ePIC SVT WP3 Electrical Interfaces Meeting September 12, 2024

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Prototypes of ePIC SVT L4 multilayered multicomponent FPC from LTU: current status

RPE LTU:

Vyacheslav (Slava) *Borshchov Ihor Tymchuk* <u>(responsible, speaker)</u> *Maksym Protsenko*

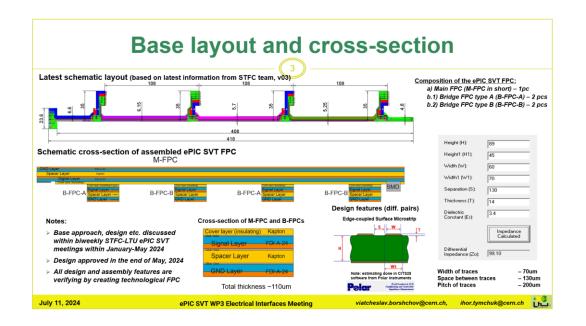


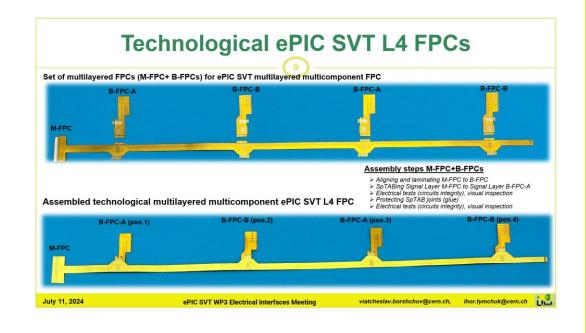
Outline

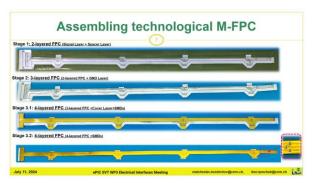
- Base approach and features (reminder)
- PIC SVT L4 FPC prototypes: current status
 - > M-FPC
 - > B-FPCs
- Next steps
- Conclusions

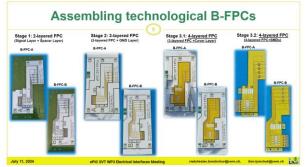


Base approach and features (reminder)

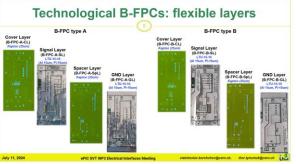






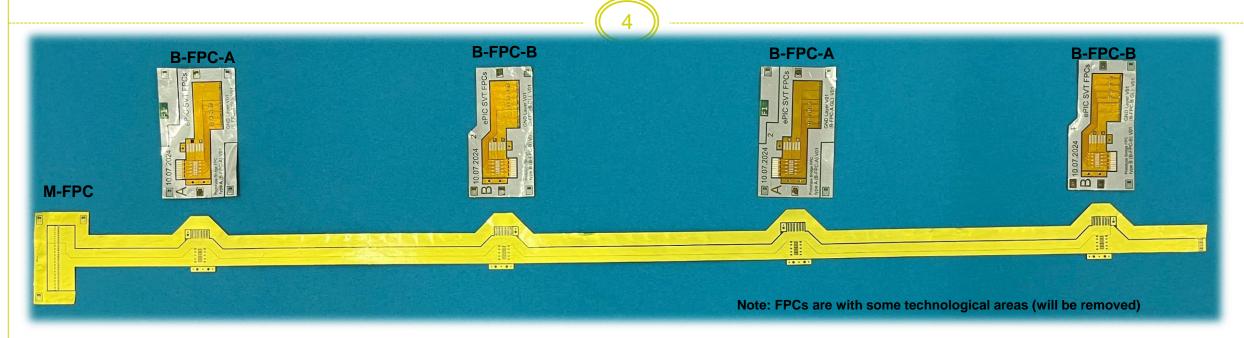








ePIC SVT L4 FPC prototype: composition/set



Planned delivery:

- 4 prototypes of assembled ePIC SVT-L4 FPC
- 4 sets of FPC prototypes for ePIC SVT-L4 FPCs (4 M-FPCs+ 16 B-FPCs)

Note: some test/technological M-FPCs and B-FPCs will be provided also for tuning-up assembly and test procedures



ePIC SVT L4 FPC prototypes: M-FPCs



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Current status:

> 8 M-FPCs are assembled

ePIC SVT L4 FPC prototypes: B-FPCs



Current status:

- 16 B-FPC-A are assembled
- > 16 B-FPC-B are assembled



Next steps/plan/updates

Technical part (8 prototypes of FPC):

- Modifying design (based on manufacturing technological FPCs) DONE
- Designing and ordering photomasks for FPC prototypes DONE
- Manufacturing flexible layers
- Assembling M-FPCs and B-FPCsDONE
- > Assembling ePIC SVT FPCs ongoing

Administrative/organization part:

- Preparing draft of STFC-RPE LTU contract (Frame Contract)DONE (sent)
- Agreeing and signing the contract ongoing
- Defining required number of the FPCsDefining required number of the FPCs
- Preparing offer (for R&D and prototypes)
- > Sending the offer DONE
- Placing/receiving the order ongoing

(the order is received but need to be a bit modified)



Conclusions

- > Components (flexible layers) for all FPC are manufactured
- > All FPCs (both M-FPCs and B-FPCs) are assembled
- > ePIC SVT L4 FPCs are under assembling
- The FPCs will be shipped as soon as the administrative part be completed

