

MICHIGAN STATE
UNIVERSITY

LArFOX_A Construction

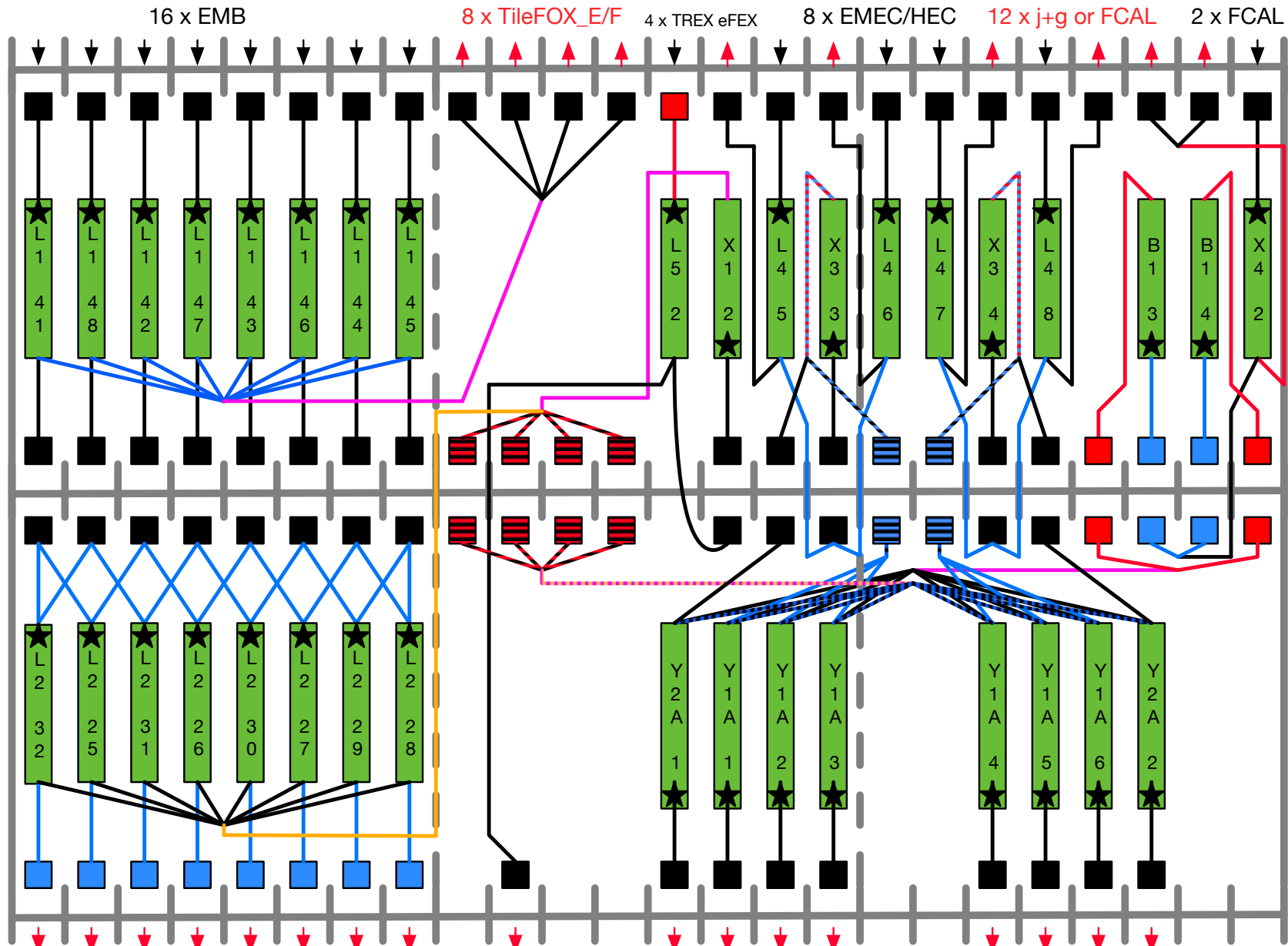
FOX

29th-31st of May 2019

Daniel Hayden
daniel.hayden@cern.ch



F



LarFOX A

Key

- x1
- x2
- x4
- x8
- x16
- Shuffle Box
- Short Side
- Input/Output

B

8 x eFEX (Barrel) 2 x TREX eFEX 16 x eFEX_A or eFEX_C (HadCon & CCon)

Closed and Protected
(This is how I leave it between work sessions)

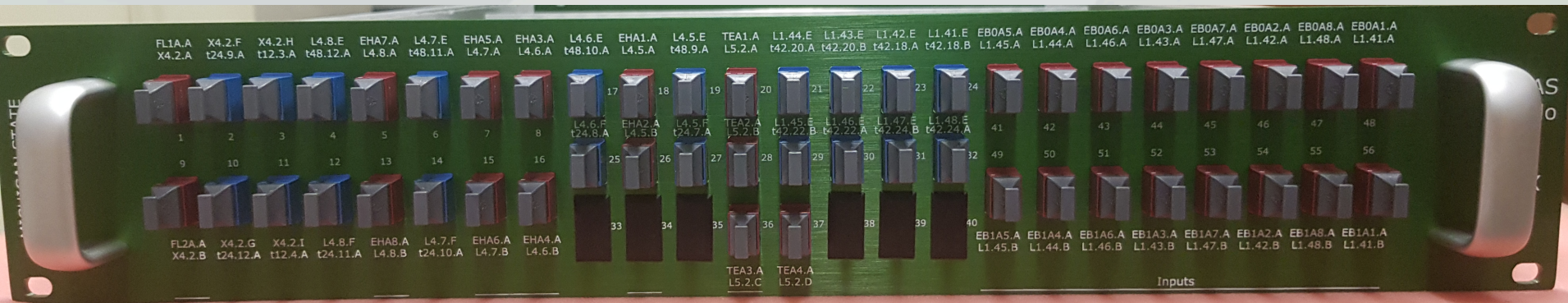


Lid Off

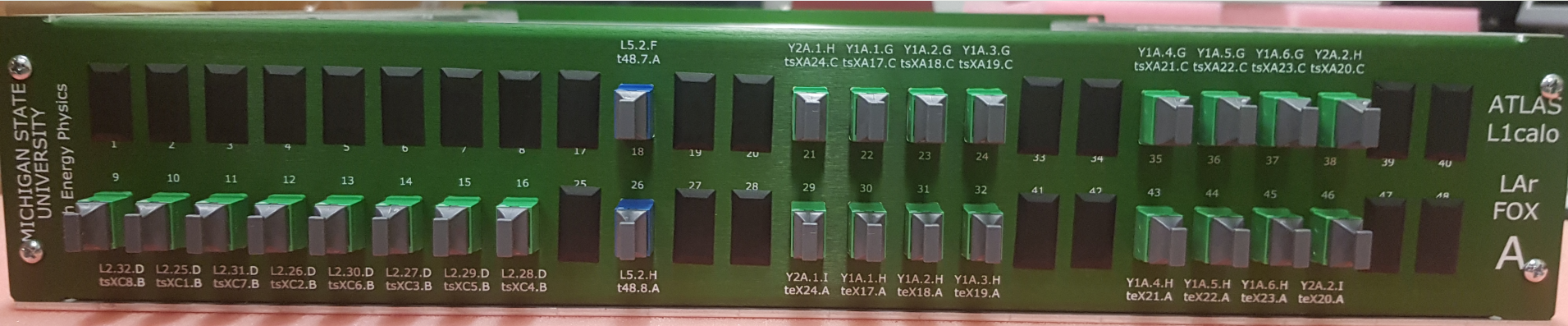
Rake Lock Off



Front Panel



Back Panel



All L1 Assemblies

See LArFOX B Construction Slides
For Step-By-Step Guide

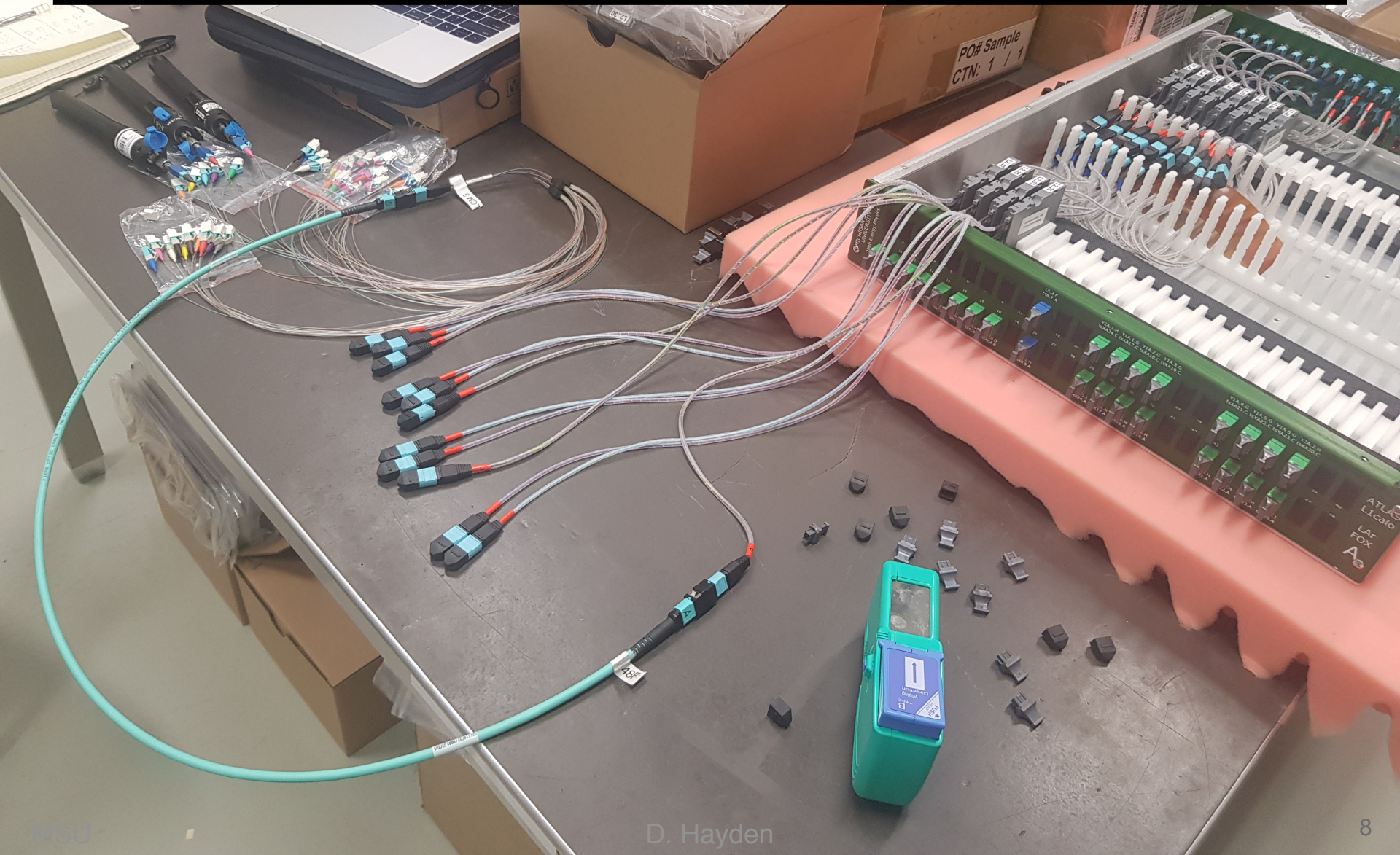


All L1-L2 Assemblies Connected

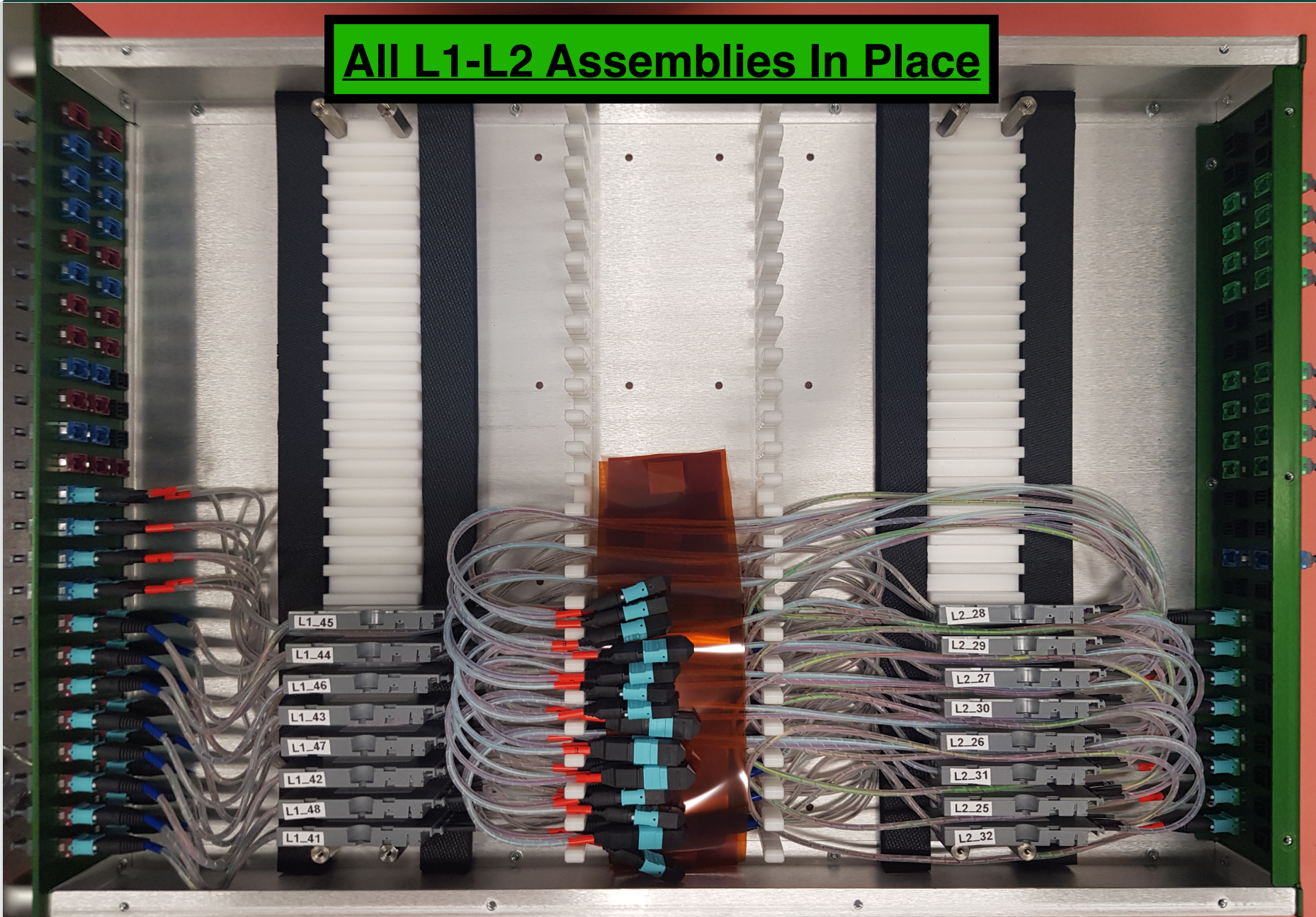
See LArFOX B Construction Slides
For Step-By-Step Guide



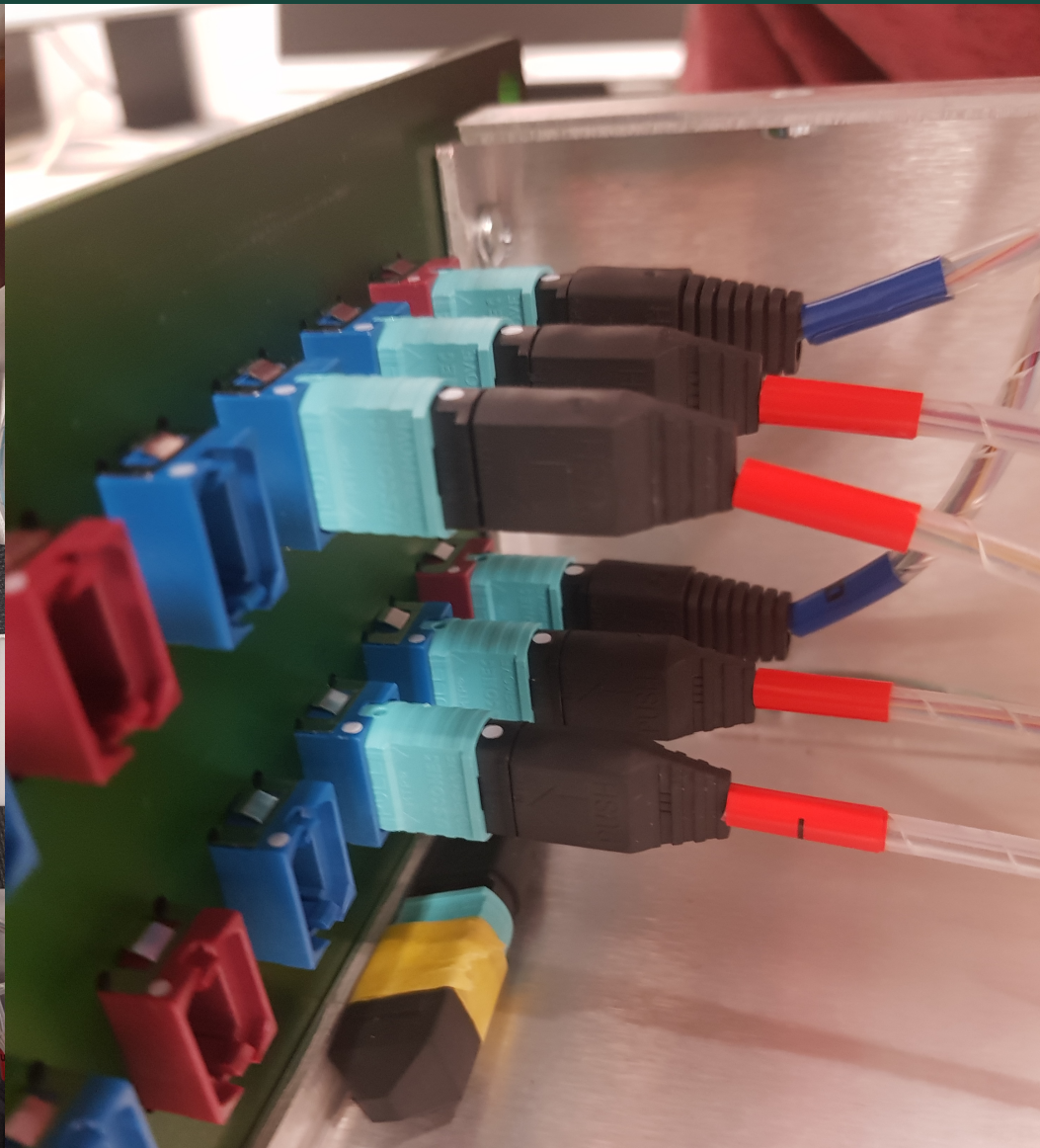
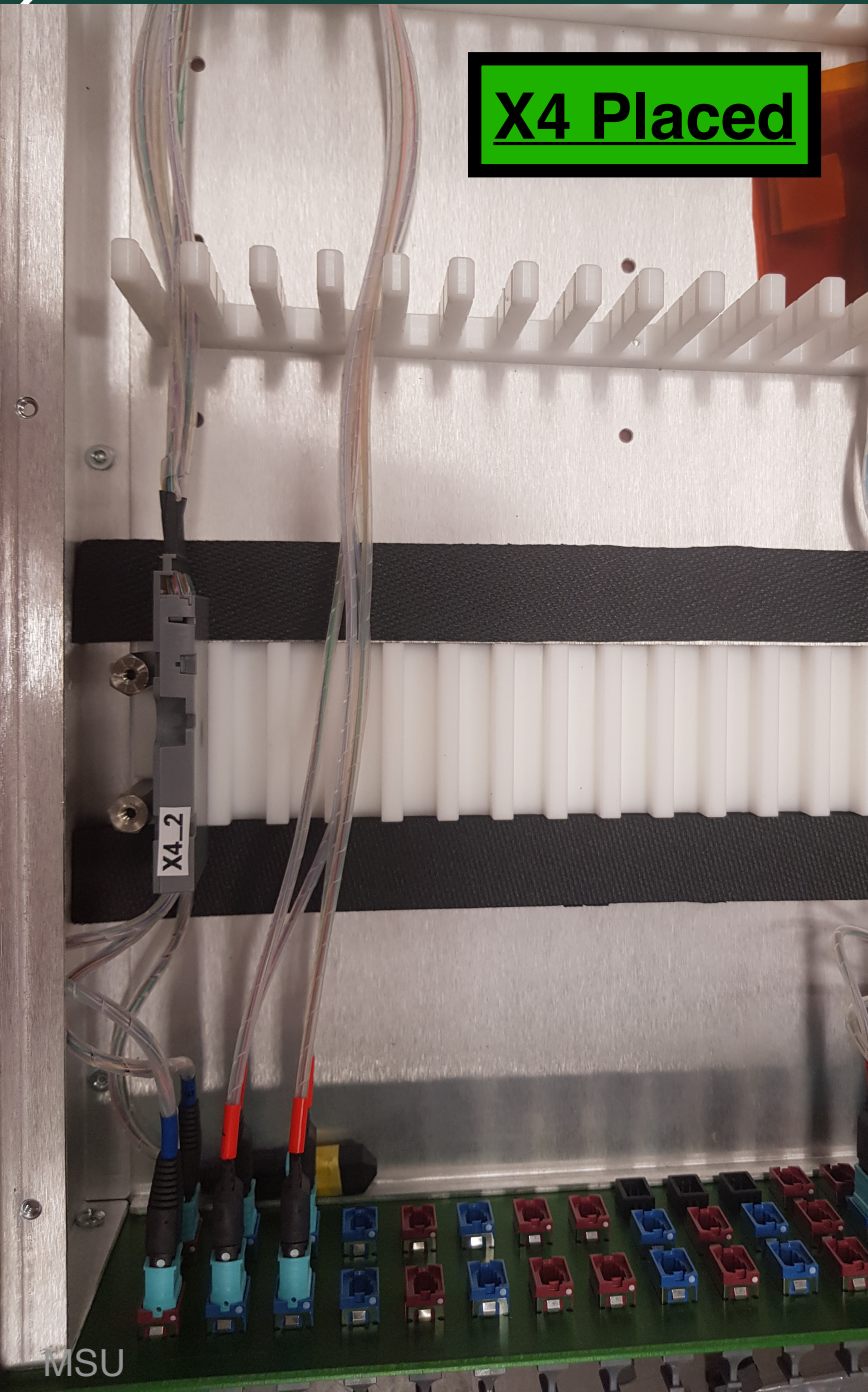
Tested each L2 as it was placed this time, so it would be easy to remove if there was a problem (none found).



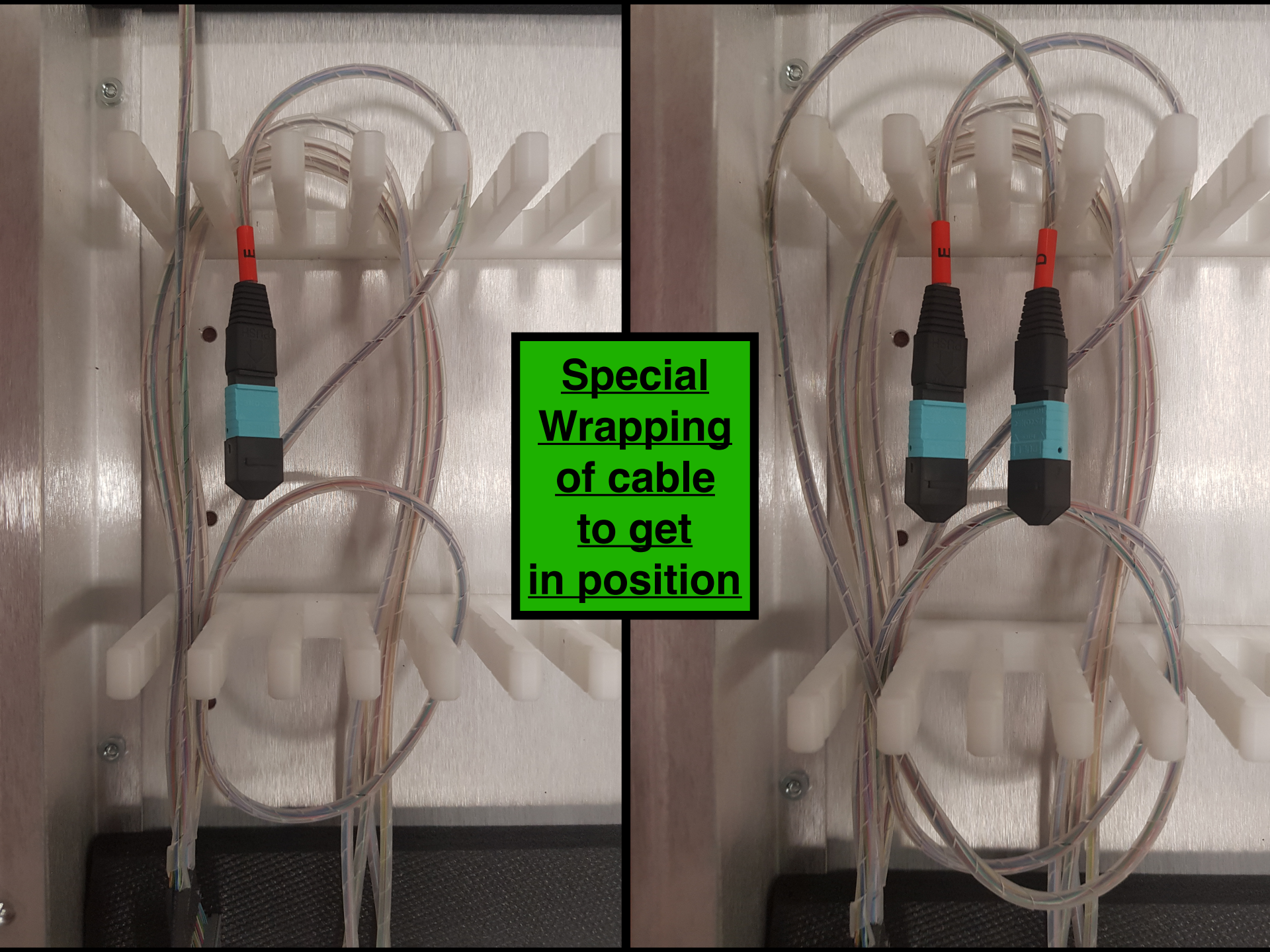
All L1-L2 Assemblies In Place



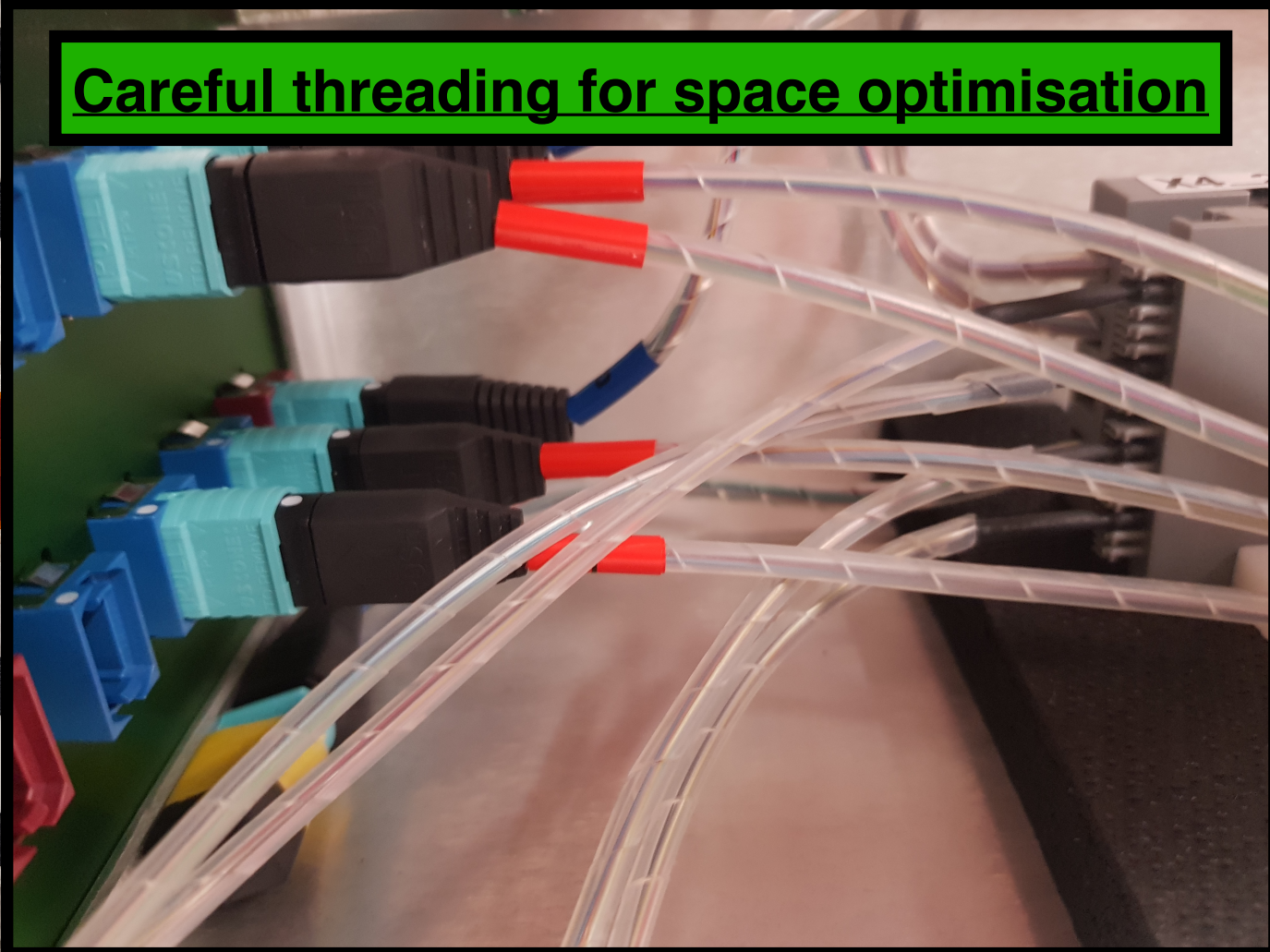
X4 Placed



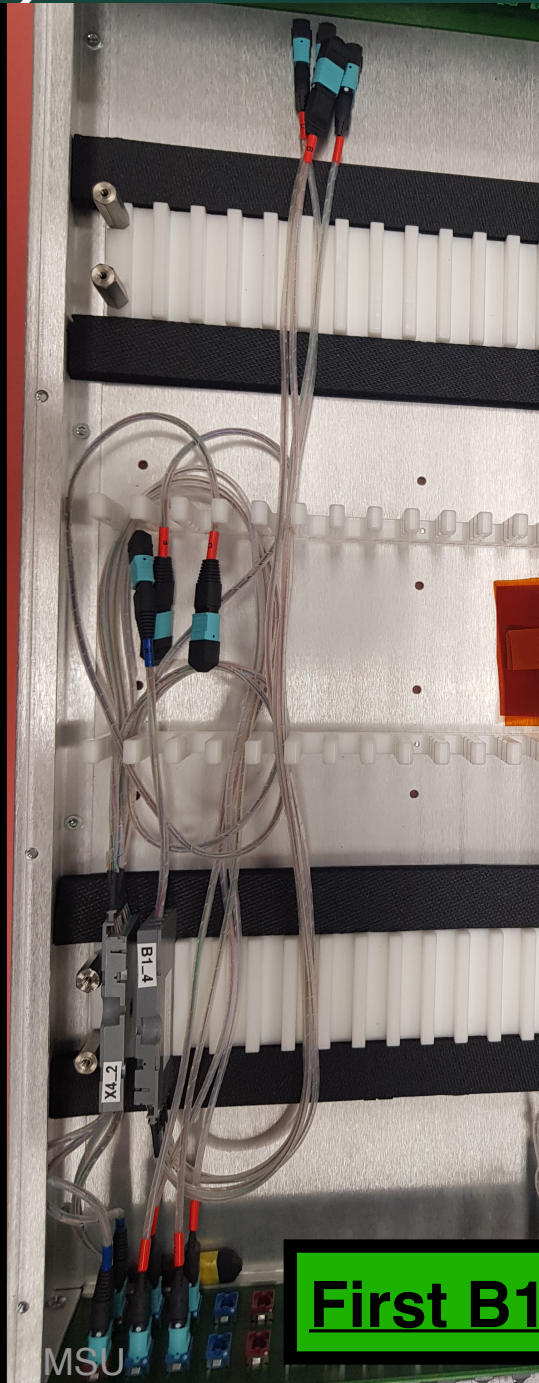
**6 Connectors to Front,
One Unused.**



Special
Wrapping
of cable
to get
in position

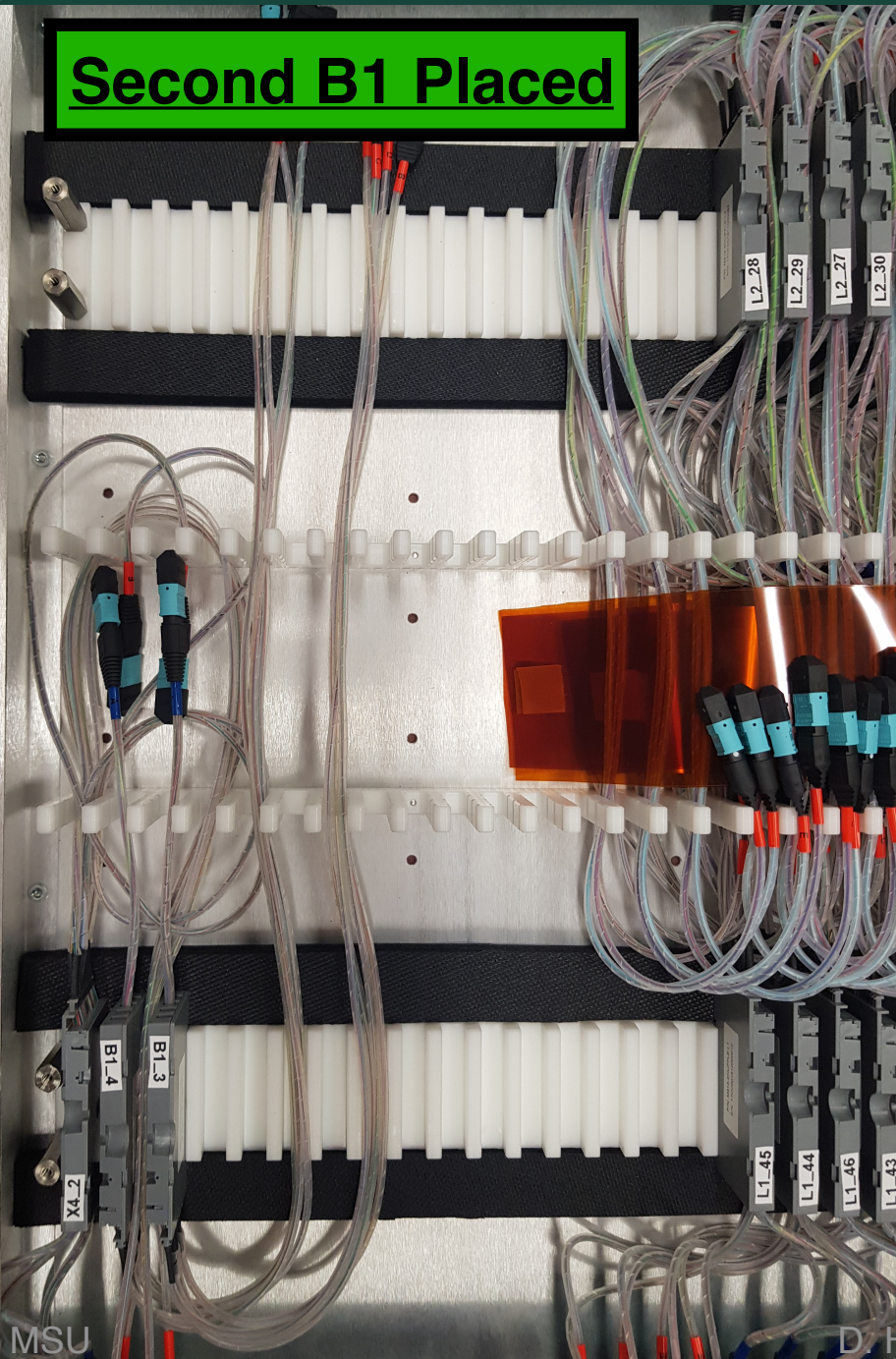


Careful threading for space optimisation

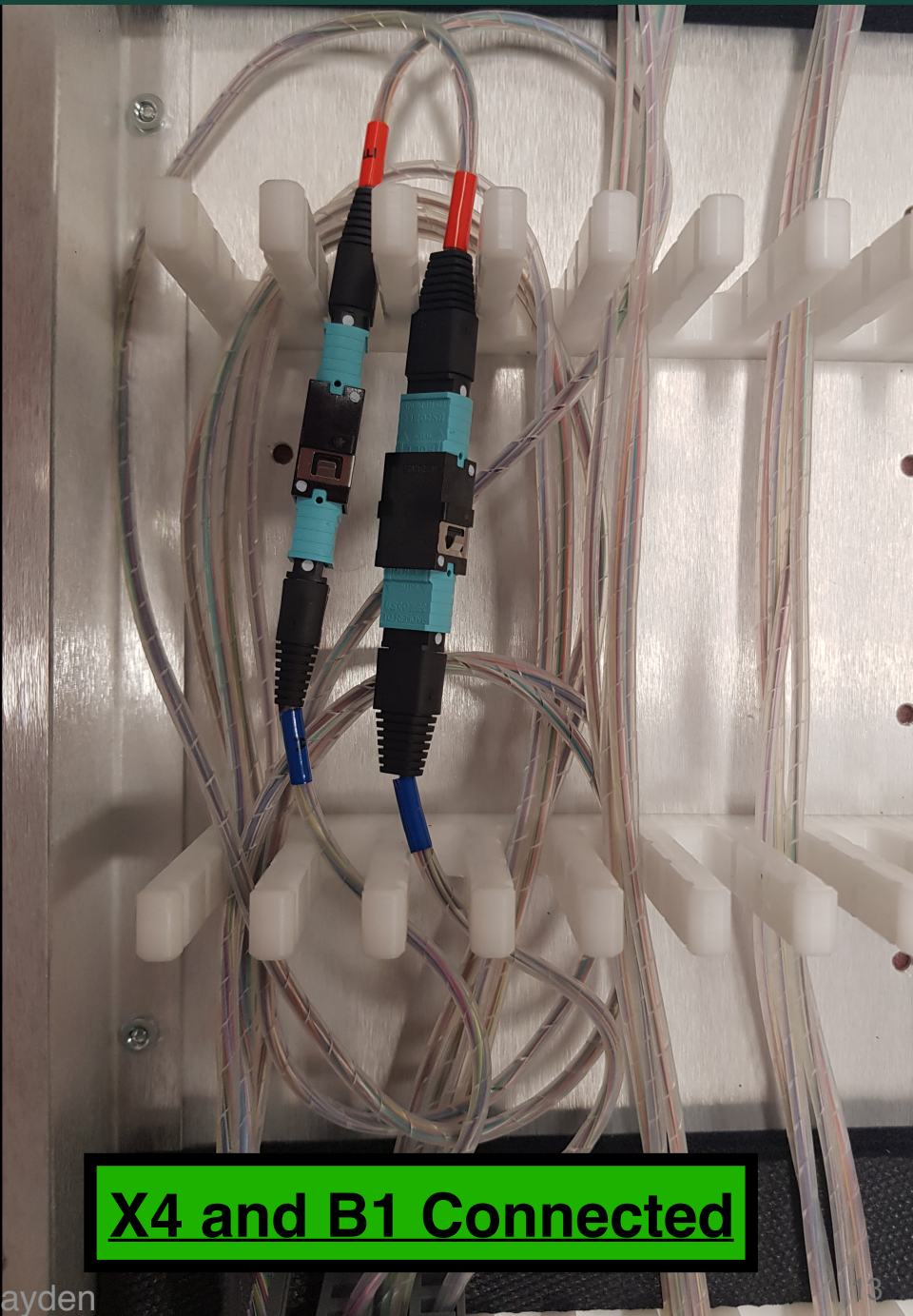


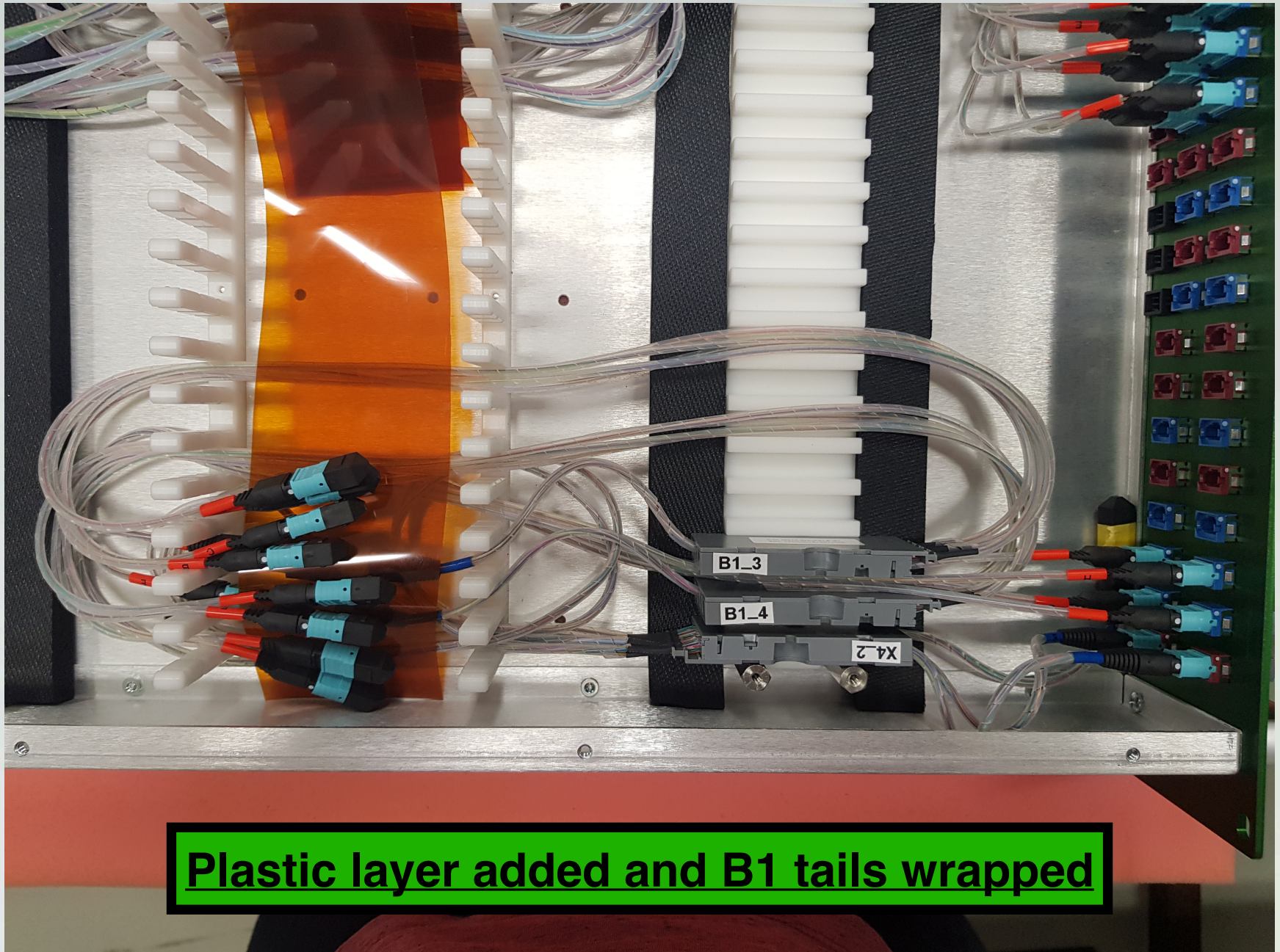
First B1 Placed

Second B1 Placed



X4 and B1 Connected





Plastic layer added and B1 tails wrapped

First L4



Another special Wrapping



Second L4

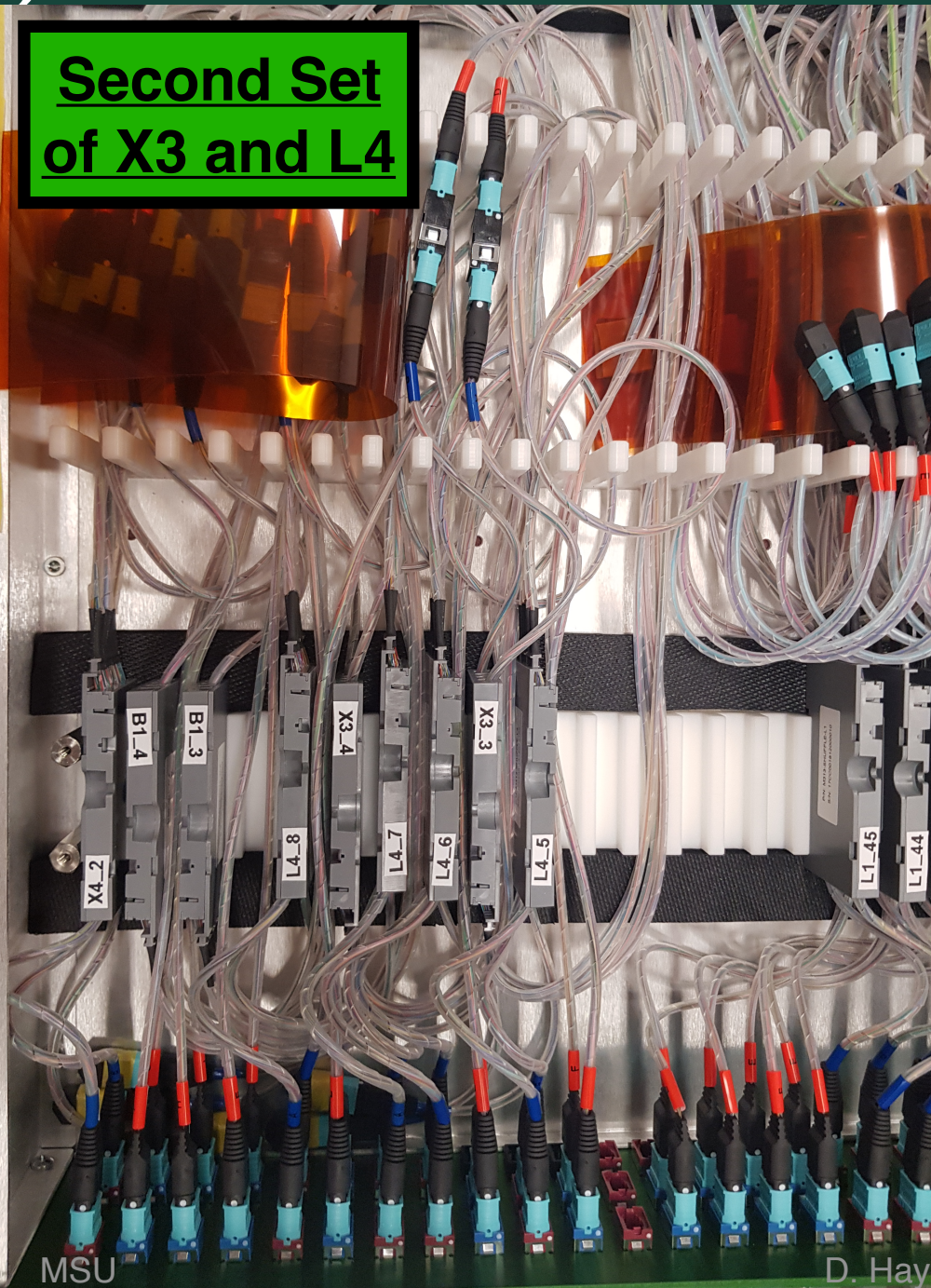


First X3





Second Set
of X3 and L4



Plastic Layer
and
Tails Wrapped



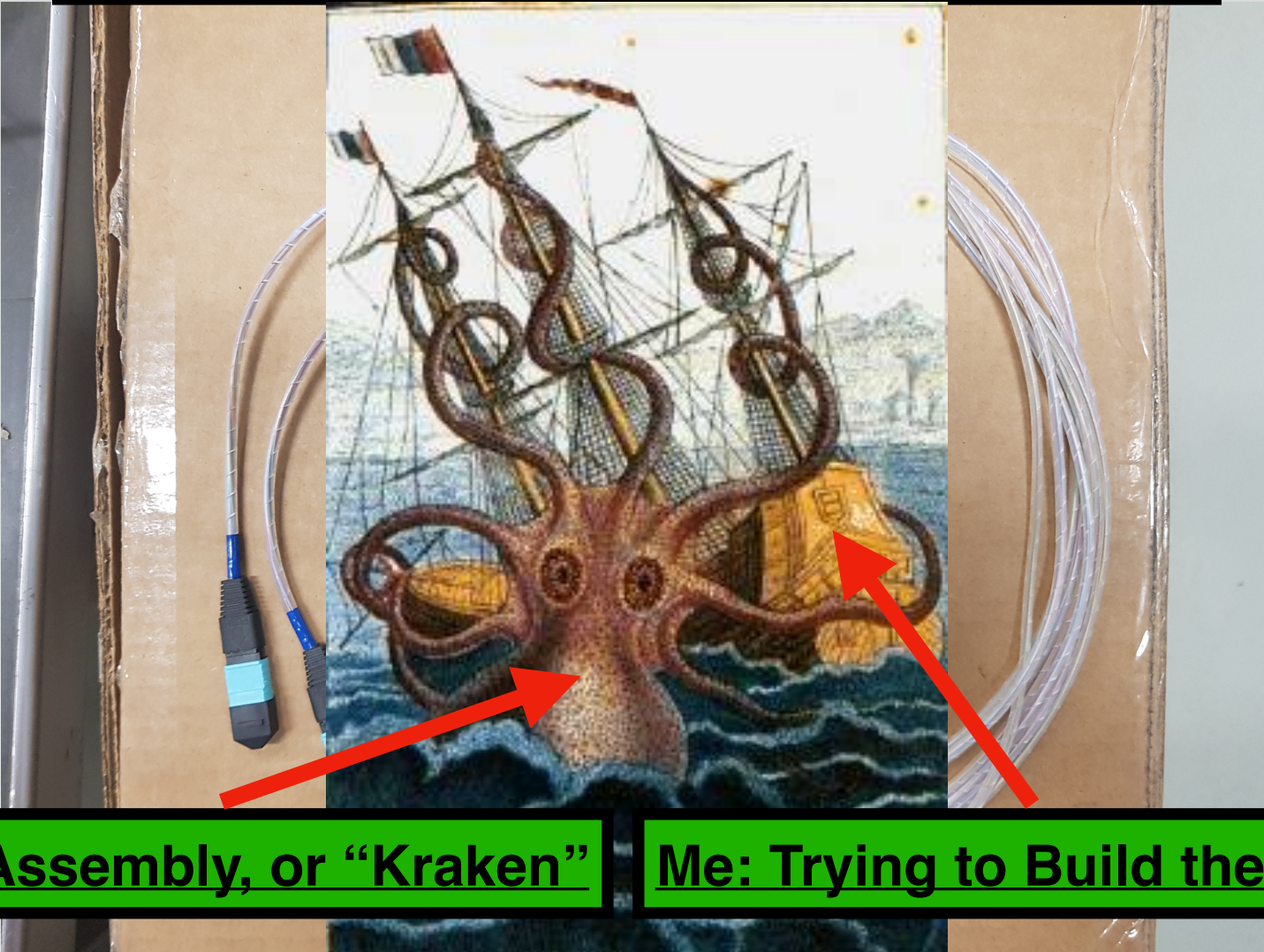
Time for the X1

... which I lovingly refer to as: The Kraken



Time for the X1

... which I lovingly refer to as: The Kraken



X1 Assembly, or "Kraken"

Me: Trying to Build the FOX



X1 and L5 placed and connected

L5 Connected to Back Panel X1 Tails Wrapped

