



IEEE 802.3bp Channel Test Setup Update

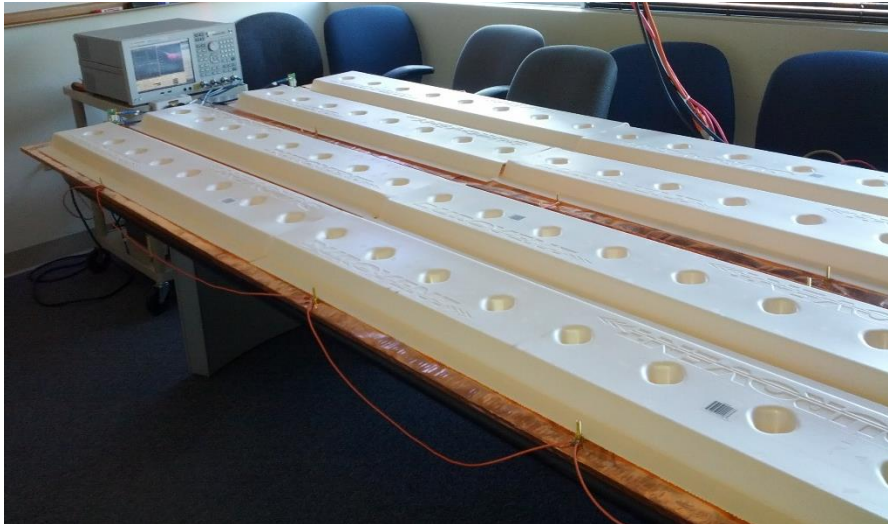
The University of New Hampshire
InterOperability Laboratory

Curtis Donahue
Dave Estes

Agenda

- ❖ Previous Setup
- ❖ Current Setup
- ❖ Next

Previous Setup



- 4' by 8' ground reference plane
 - 4x 2' by 4' panels
- 4cm Styrofoam spacers
- Wiring between panels to ensure conductivity

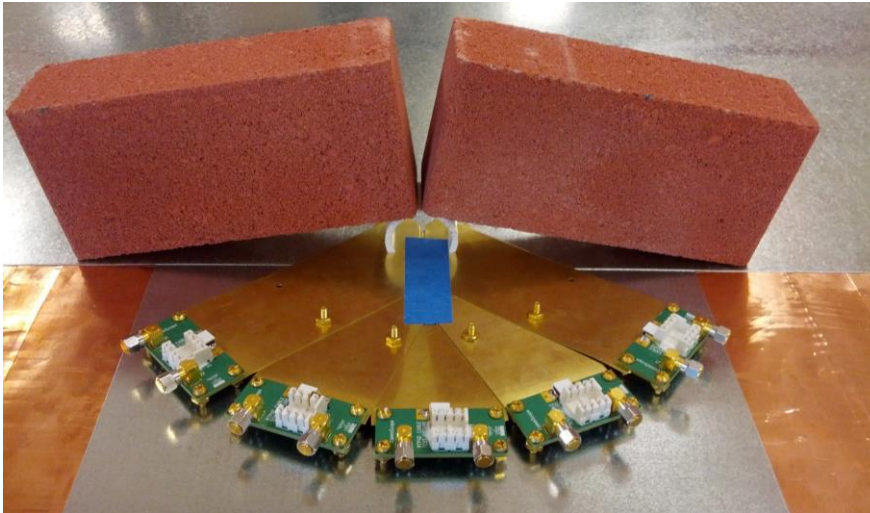
Possible Issues

- Wiring between panels and could cause resonance in measurements
- 2' by 4' panel edges were not covered with overlapping material
- Flexibility of styrofoam can cause variations in cable to ground plane height

Current Setup

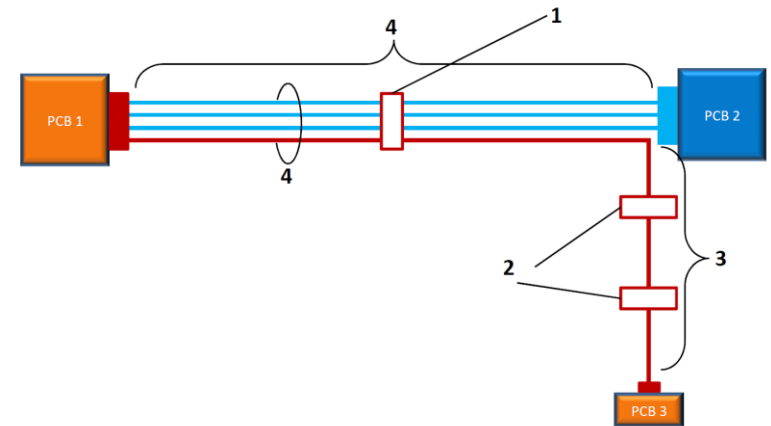
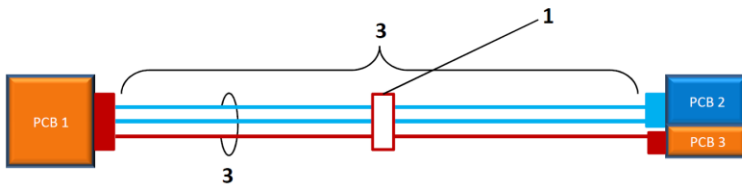
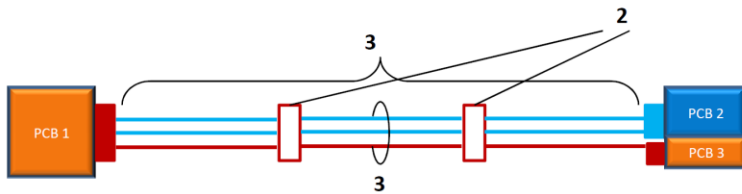


- 4' by 8' ground reference plane
 - Still using 4x 2' by 4' panels
 - Overlap panel edges with stainless steel
- Removed Wiring and screws/nuts
- Weights (bricks) for good contact between test heads and reference plane
- Commscope multi-head fixture for alien crosstalk validation



Next

- 3-channel bundle & 5-channel bundle measurements



How to submit assembly samples

Contact us:

Curtis Donahue cdonahue@iol.unh.edu

Dave Estes daestes@iol.unh.edu

- Assemblies with MDI should be delivered with respective test fixtures
- Provide identifying qualities (length, gauge, etc.)
- NDAs can be signed if requested