

Full list of desired connections on FIB:

1. Serial powering (from Control Room):

- I_{in}.
- I_{out}.

2. CB-to-FIB:

- 3 x diff pair for FPC S/Cs (6 wires).
- VTRx+ power (2V5 domains could be supplied by 1 source, GND could be shared for all domains) (3-6 wires).
 - 1V2 Tx domain (VCCT1V2).
 - 2V5 Tx domain (VCCT2V5).
 - 2V5 Rx domain (VCCR2V5).
 - GND needed.
- VTRx+ I2C (share GND with power domains?) (2-3 wires).
 - SCL.
 - SDA.
- Laser driver controls (2 wires).
 - Reset.
 - Disable.
- RSSI (Rx current monitor) (1 wire).
- VTRx+ thermistor (2 wires).
 - 2 terminal interface.
- Voltage sense (for VTRx+ domains) (3-4 wires).
 - 1V2 domain.
 - Shared or separate 2V5 domains?
 - GND sense (to account for V-shift on both rails).

2 SP wires needed.

Minimum of 19 wires (up to 24) between CB and FIB.

- *Minimum only includes 1 x GND wire (we probably want more)!*