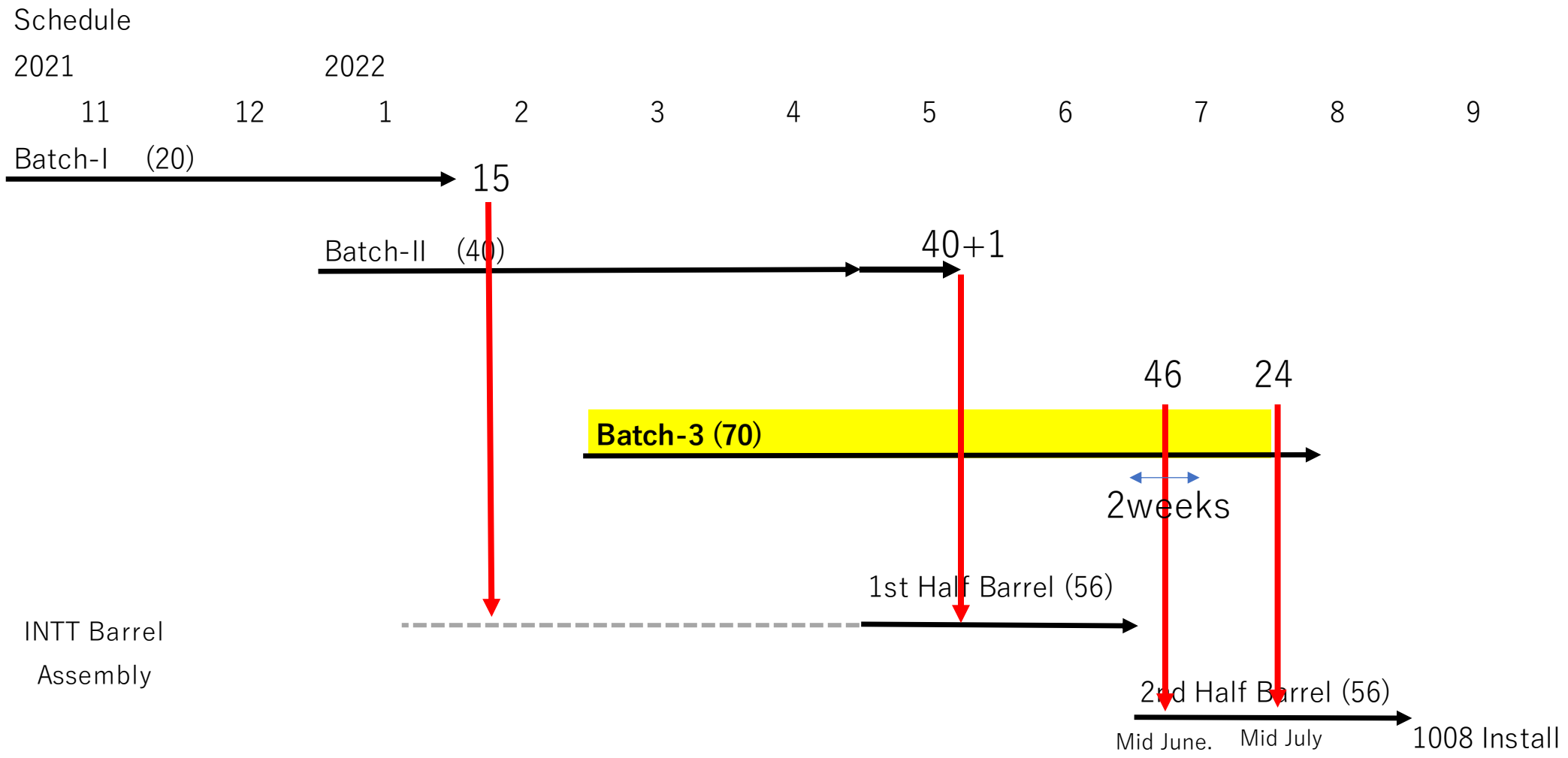
Production Status

RIKEN/RBRC

Itaru Nakagawa

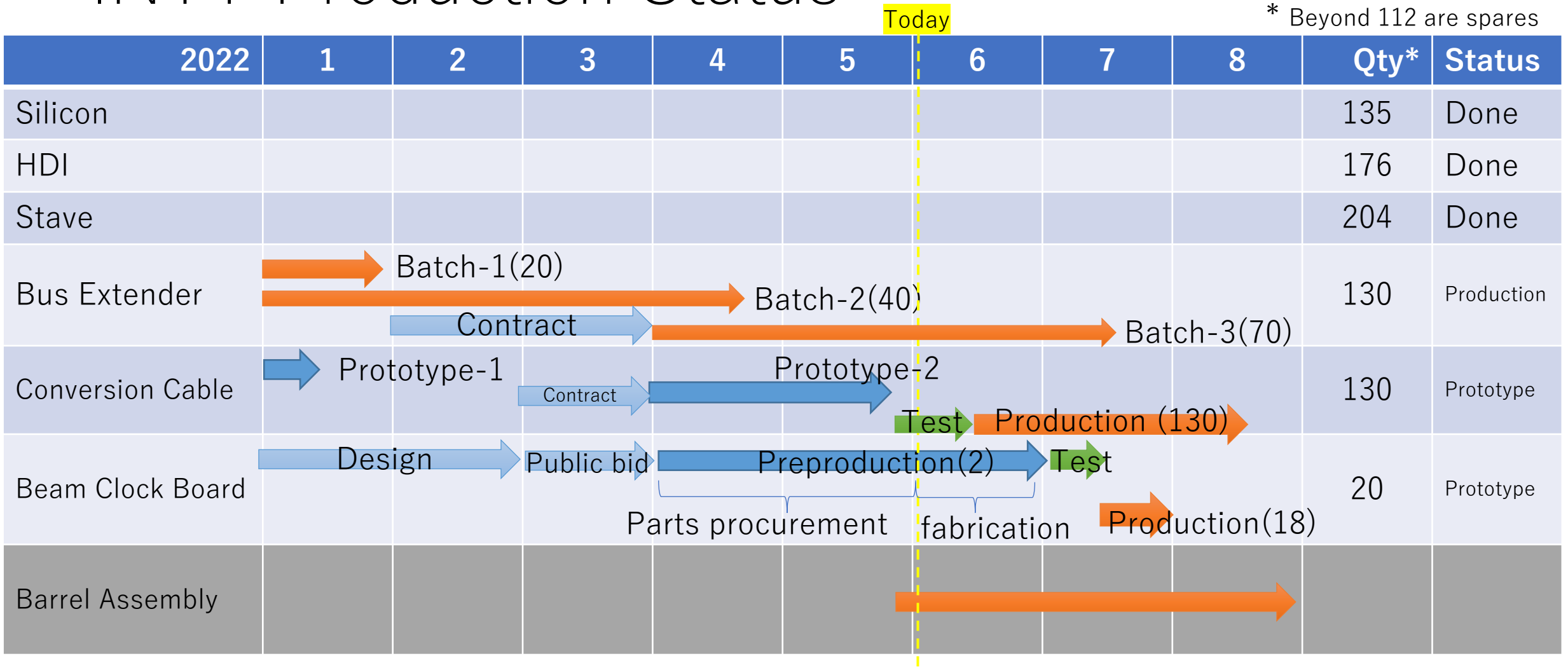
Bus Extender Production Batch-II, III



Total Qty. in BNL	15	56	102	126

INTT Production Status

* Beyond 112 are spares

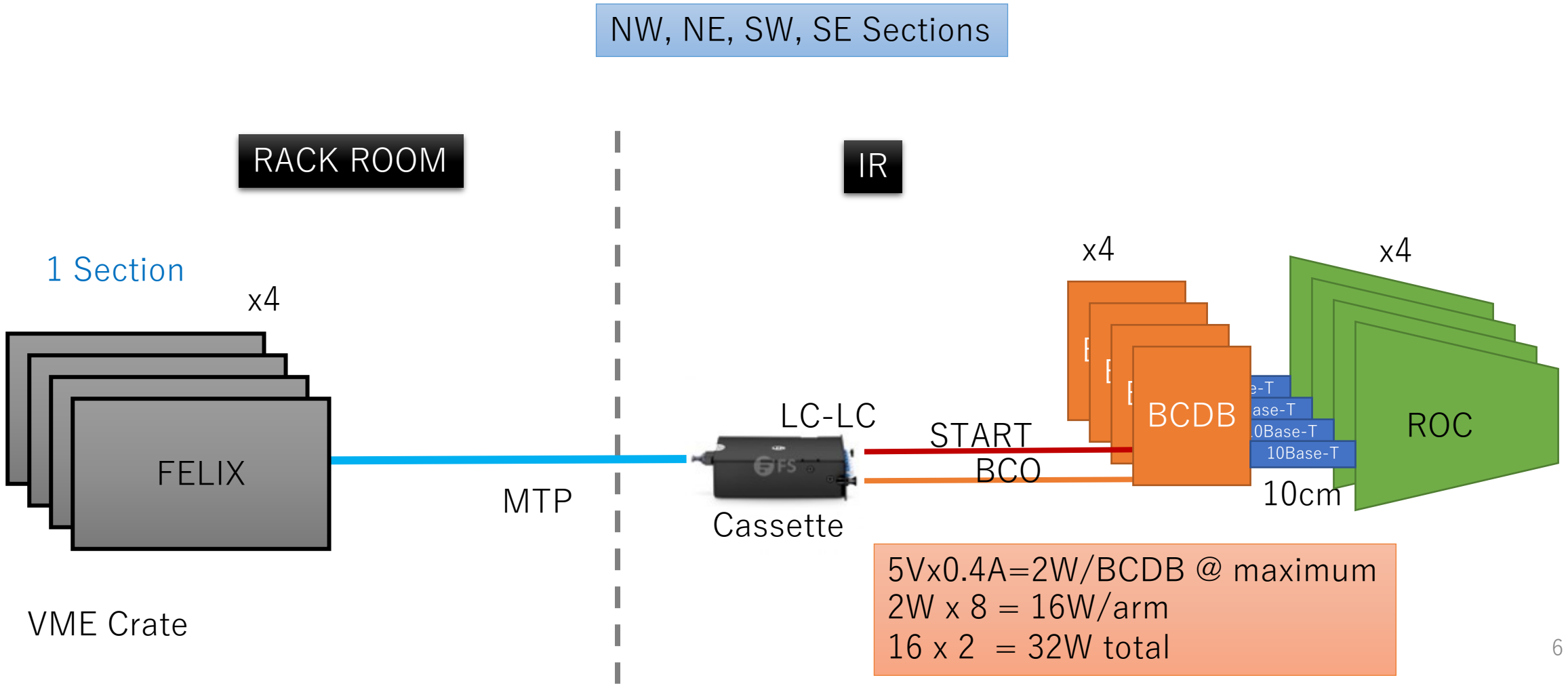


Exporting μ-Coax Prototype-II to BNL

BCDB Update

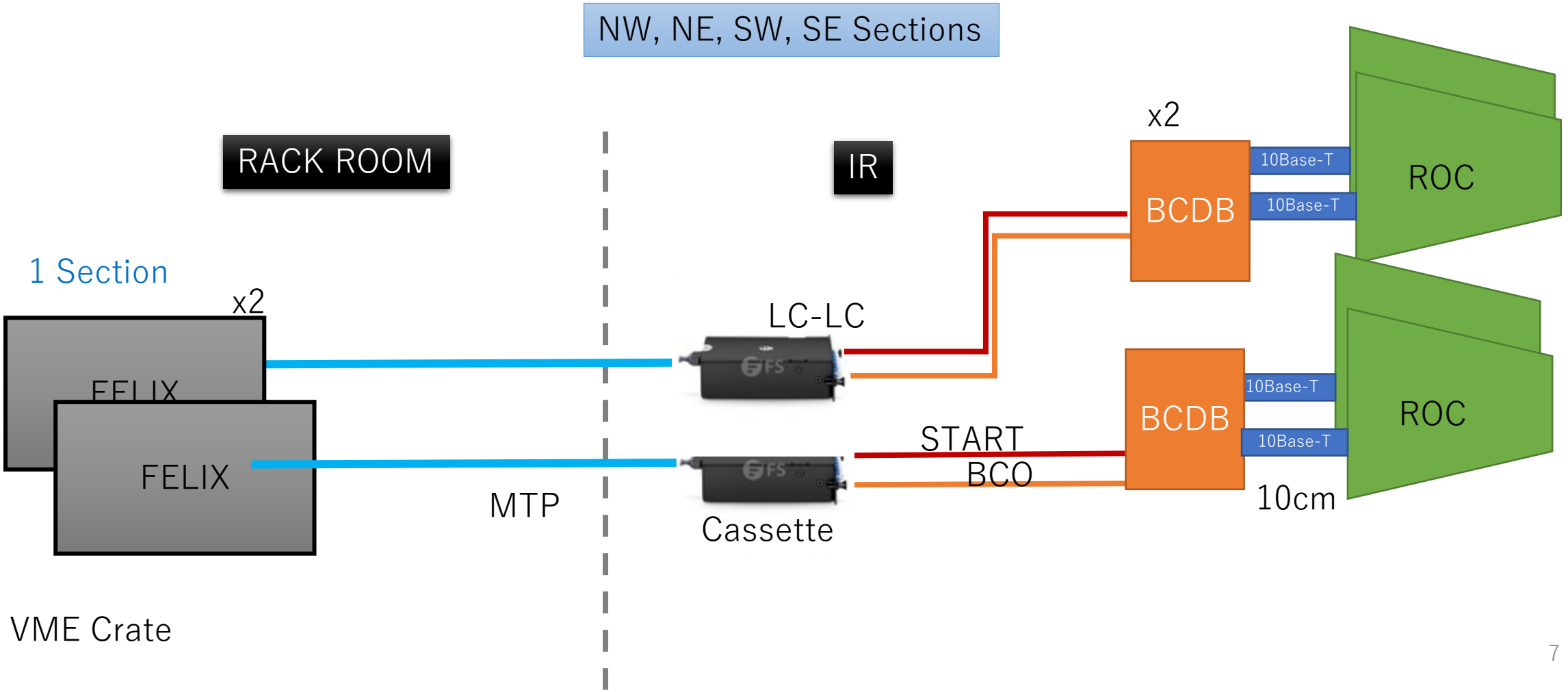
FELIX BCLK Configuration

- Assuming 1 FELIX is assigned to each ROC (confirmed by Sioan).



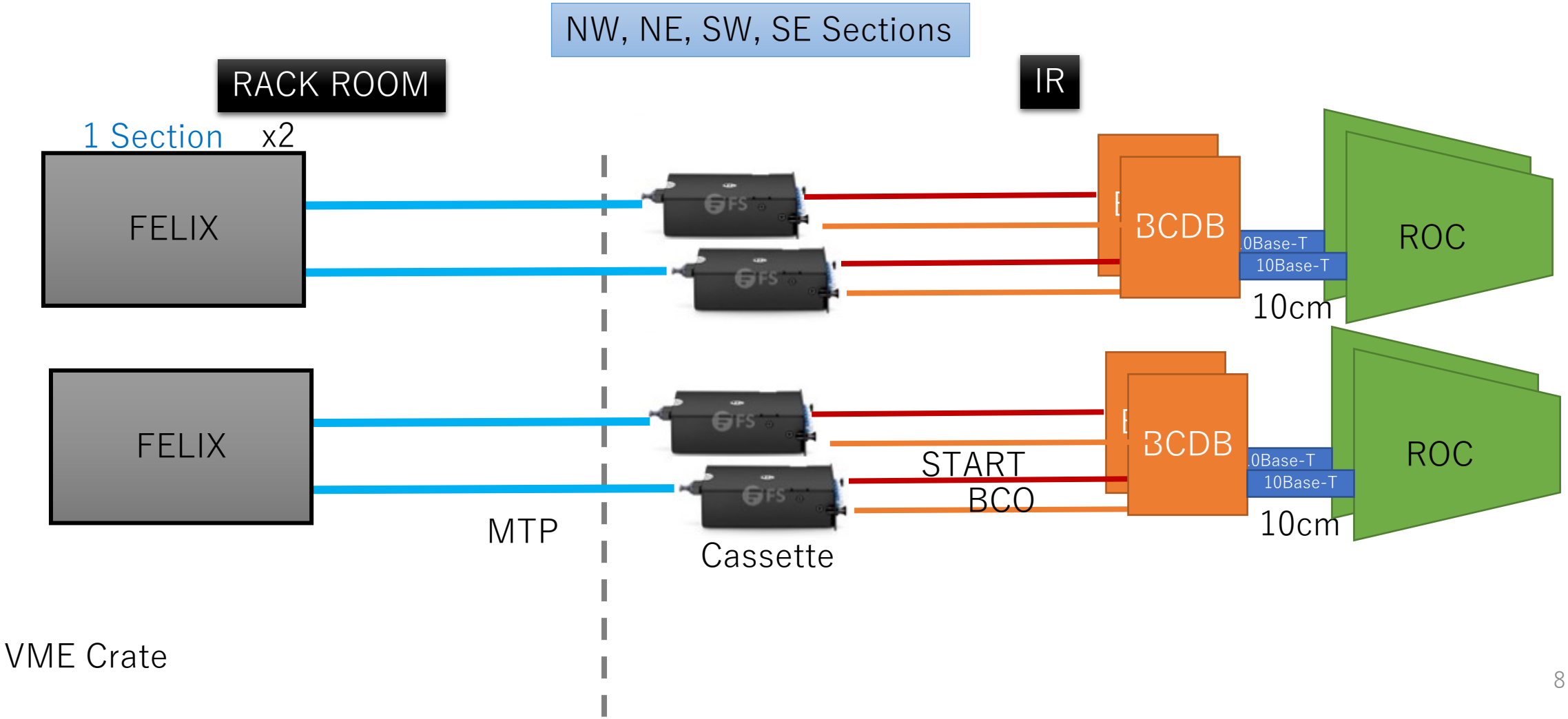
FELIX BCLK Configuration

- The latest configuration is 2ROC boards/1 Felix = 2ROC boards/1BCDB.
- We will end up with 8 BCDB boards (Production is 20).

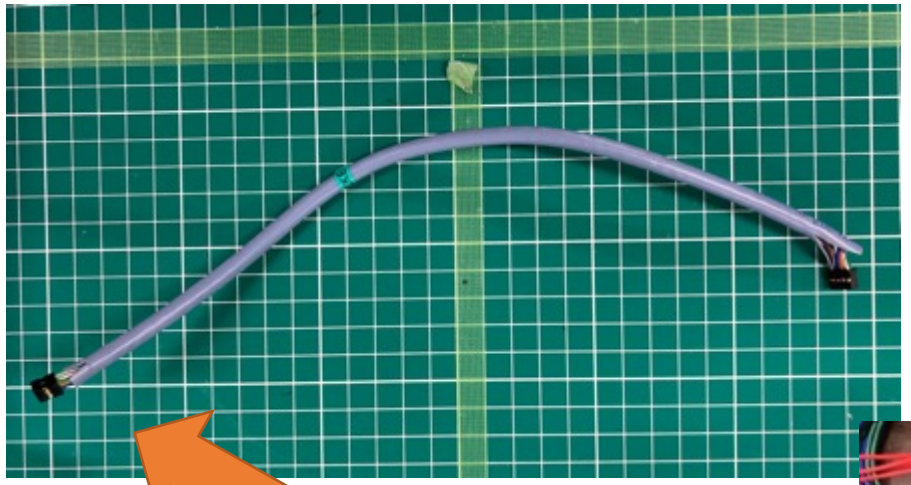


FELIX BCLK Configuration

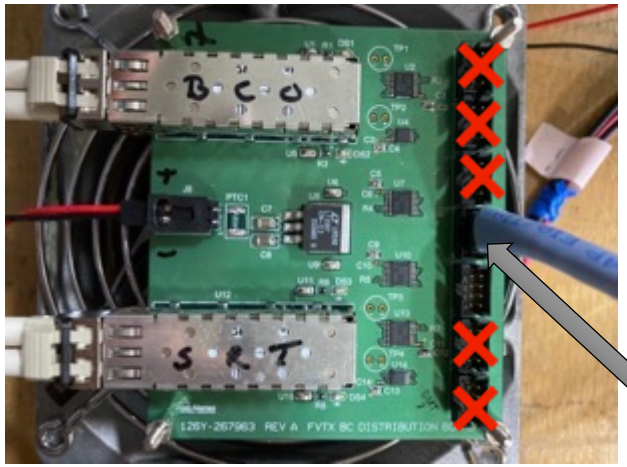
- Not sure if it is worthy to have 2 BCDB/1 Felix.



Custom Made Beam Clock Cable

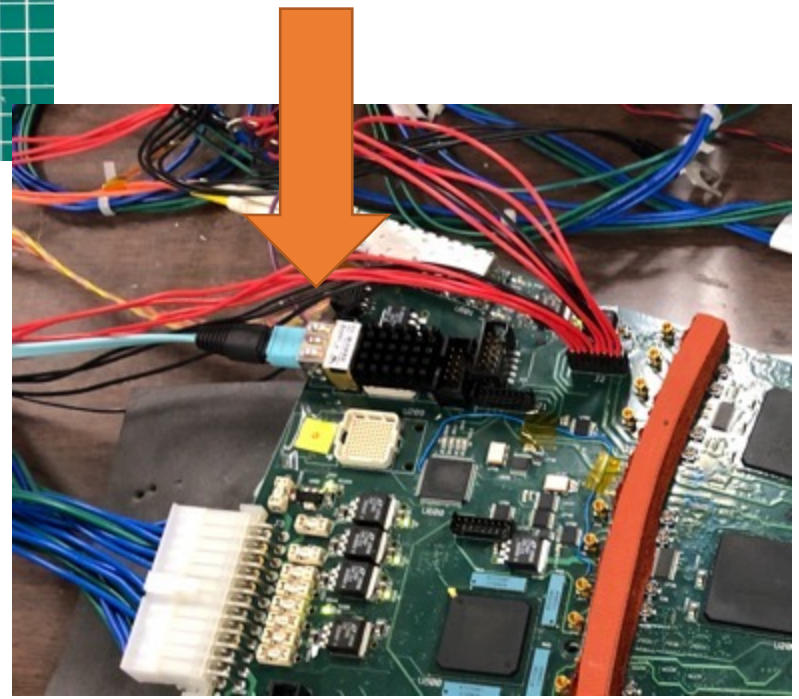


16+8spare (24 total) cables are to be made by Hayashi REPIC co.

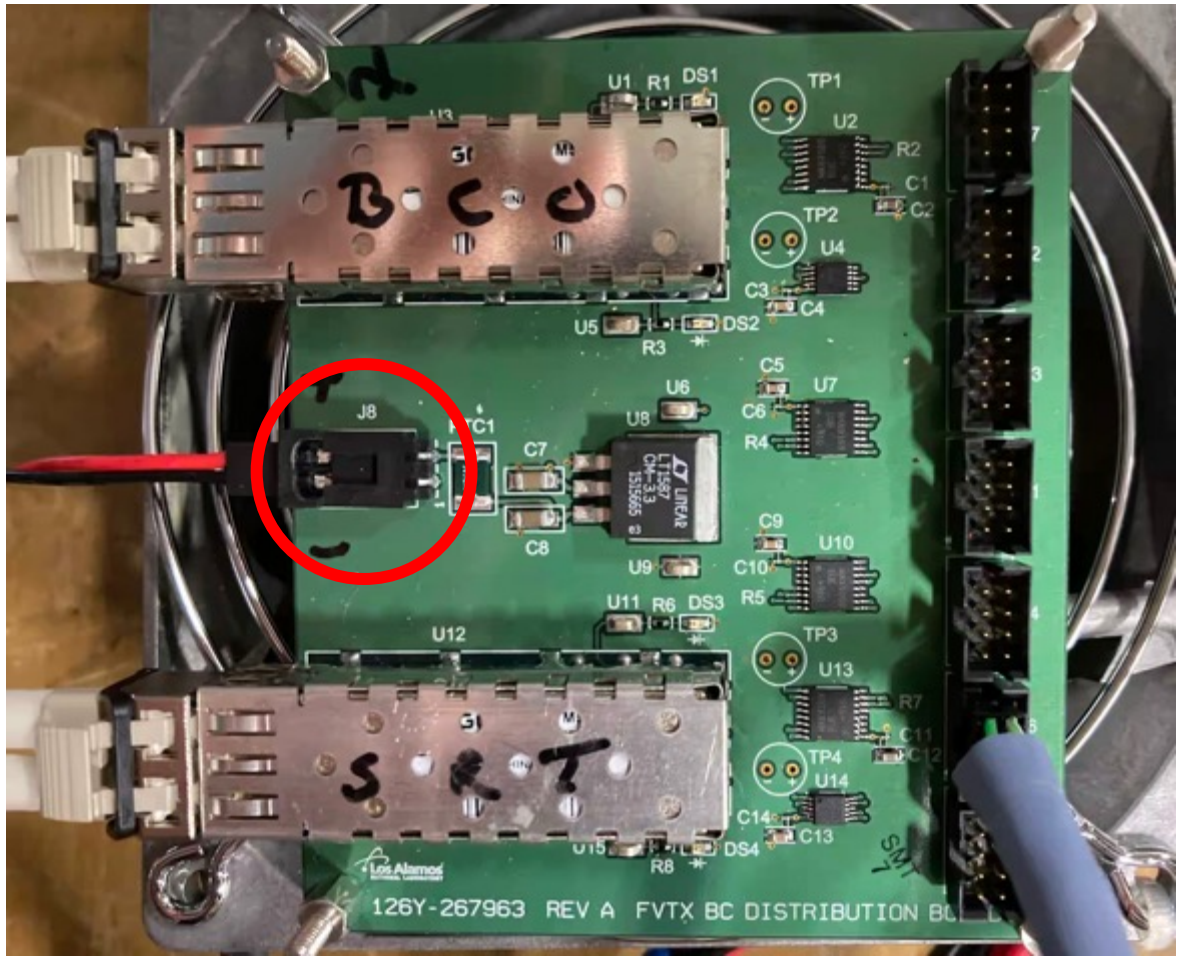


x2

RJ45 Category >5
LAN Connector (female)



Issues in parts procurement



- The parts procurement is completed except for the power connector.
- The connector model is 70553-0106 (MOLEX) and no longer available in the market.
- Asked Rob and Cheng-Wei if they can find them in US/Taiwan. However, the product is not available in neither markets nor the rest of world.
- On June 2nd, the company found 70553-0001 model available in the market.

Model	Gold Plating
70553-0106	0.76 um
70553-0001	0.38 um

Finally Rob found 30 pieces of 70553-106 in a local vendor. 1-2 weeks delivery and unlikely to be in time for June 20th time limit. Make first 2 BCLKs with 70553-0001 and rests are 70553-0106. Replace first 2BCLKs with 70553-0106 later if necessary.

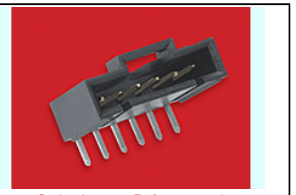
Candidate

molex
one company > a world of innovation

This document was generated on 02/02/2022

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0705530001
Status: Active
Overview: SL Modular Connectors
Description: 2.54mm Pitch SL Header, Low Profile, Single Row, Right Angle, 3.05mm Pocket, Shrouded, 2 Circuits, 0.38µm Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating



Series image - Reference only

Documents:
3D Model
Drawing (PDF)
Product Specification PS-70400-001 (PDF)
Product Specification PS-70541-001 (PDF)
Packaging Specification PK-70873-0015-001 (PDF)
Test Summary TS-70541-100-001 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	70553
Application	Signal, Wire-to-Board
Overview	SL Modular Connectors
Product Name	SL
UPC	800754319775

Physical

Breakaway	No
Circuits (Loaded)	2
Circuits (maximum)	2
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	0.527/g
Number of Rows	1
Orientation	Right Angle
PC Tail Length	3.30mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Packaging Type	Tube
Pitch - Mating Interface	2.54mm
Plating min - Mating	0.381µm
Plating min - Termination	1.905µm
Polarized to Mating Part	Yes
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	3.0A

EU ELV
Not Relevant

EU RoHS | **China RoHS**
Compliant

REACH SVHC
Not Contained Per - D(2021)4569-DC (8 July 2021)

Halogen-Free Status
Not Low-Halogen

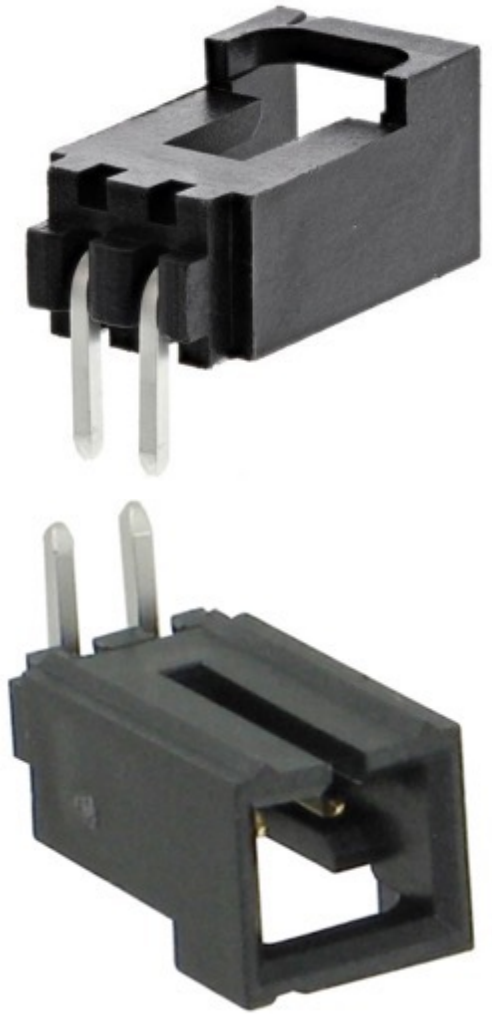
For more information, please visit Contact US

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

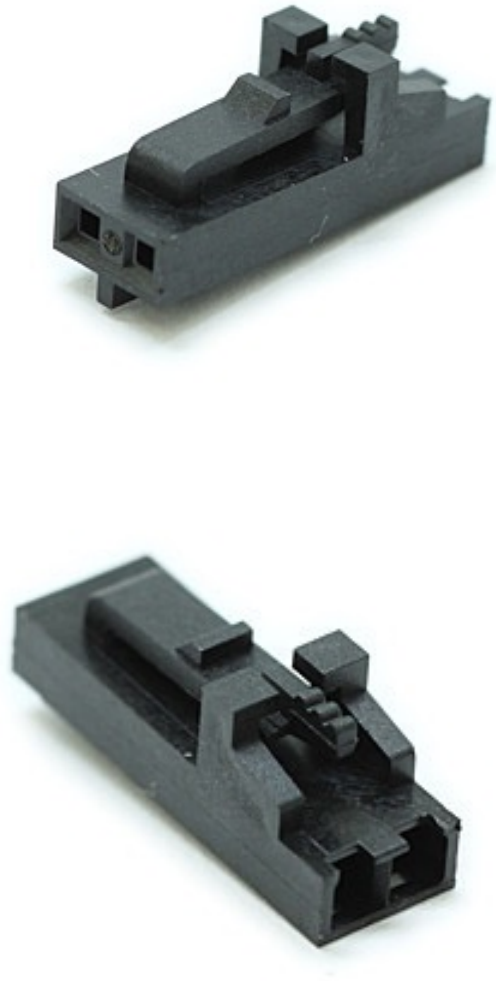
Search Parts in this Series
70553 Series

Mates With
SL Crimp Housing 70066 Option N, 70066 Option G, 70430 Option G, 70400 Option G

Housing



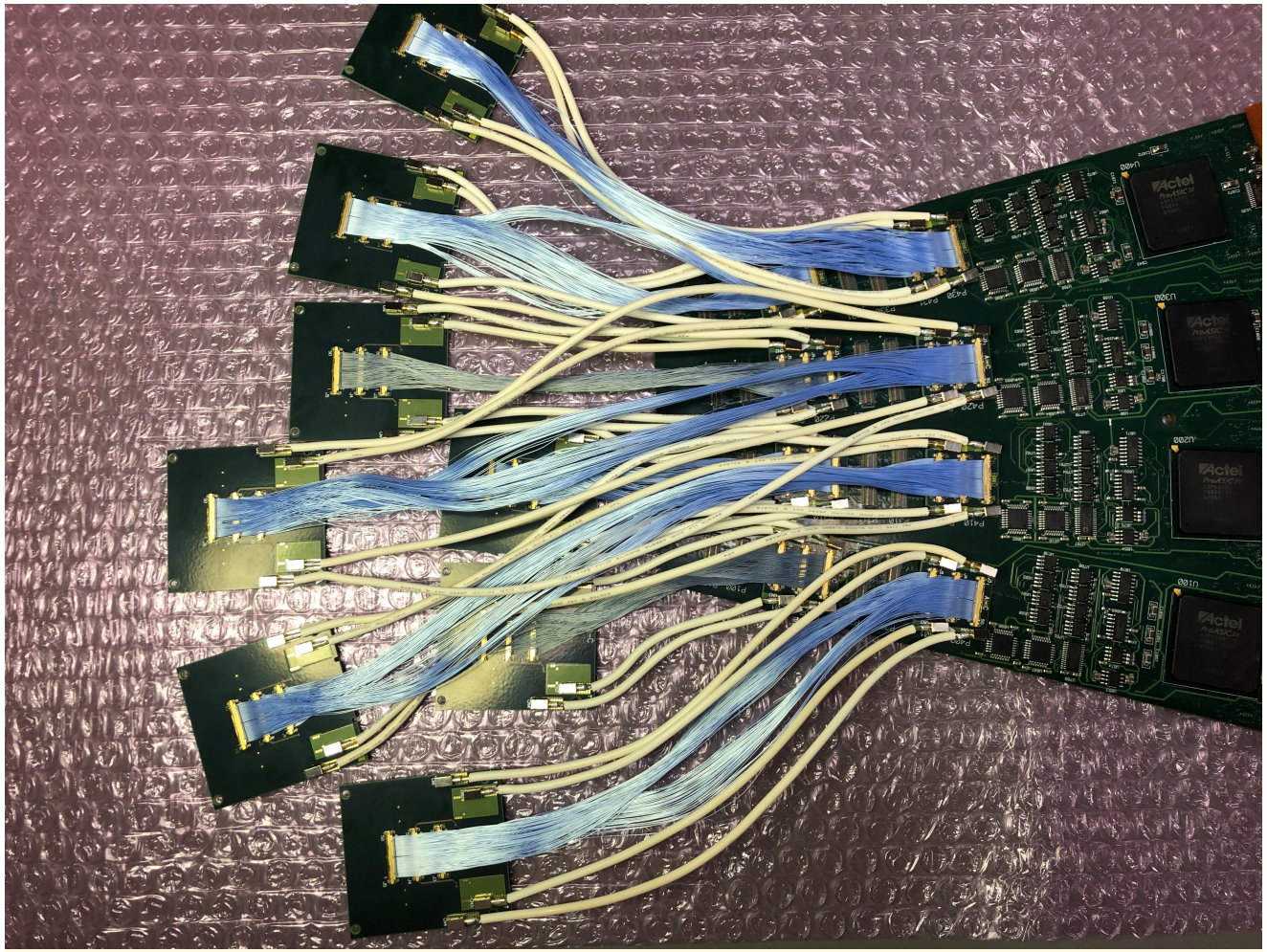
Receptacle

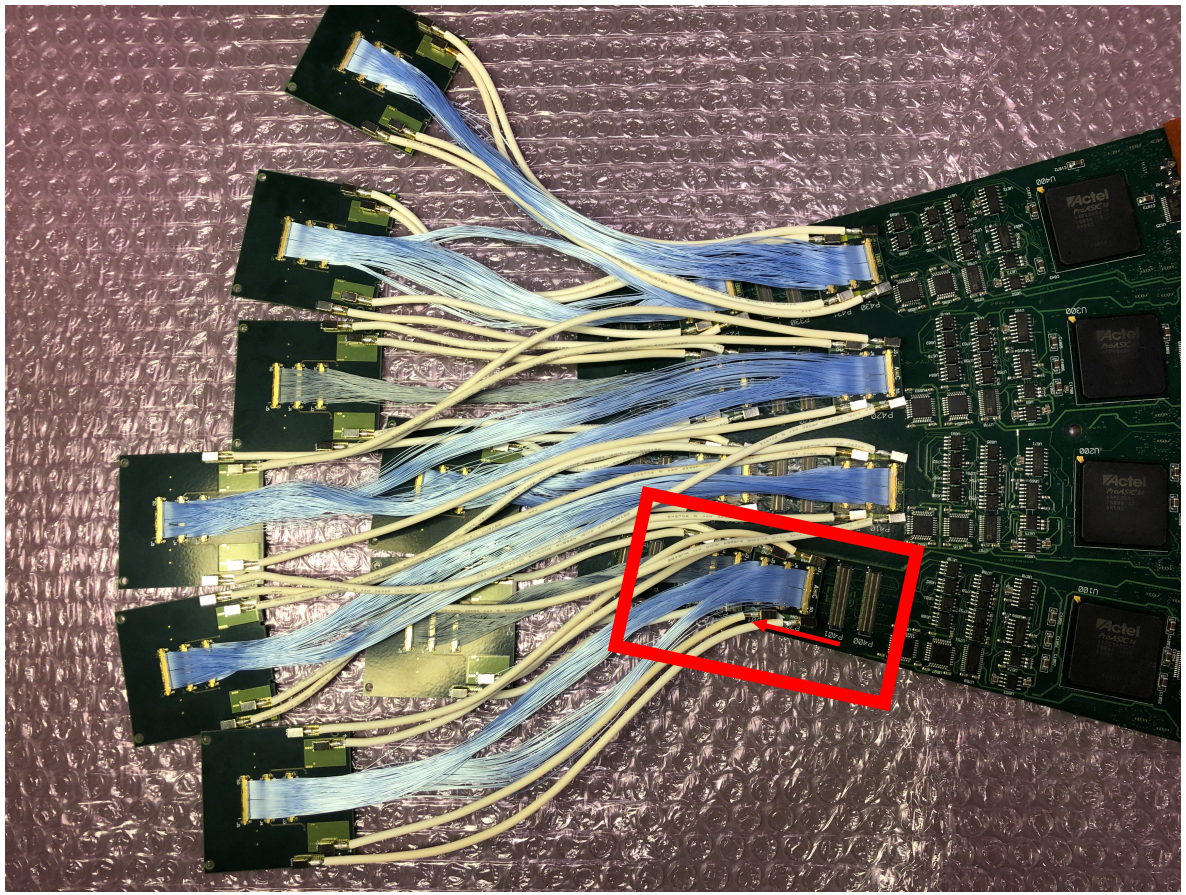


Model 50-57-9402

Towards Production of μ-Coax Conversion Cable

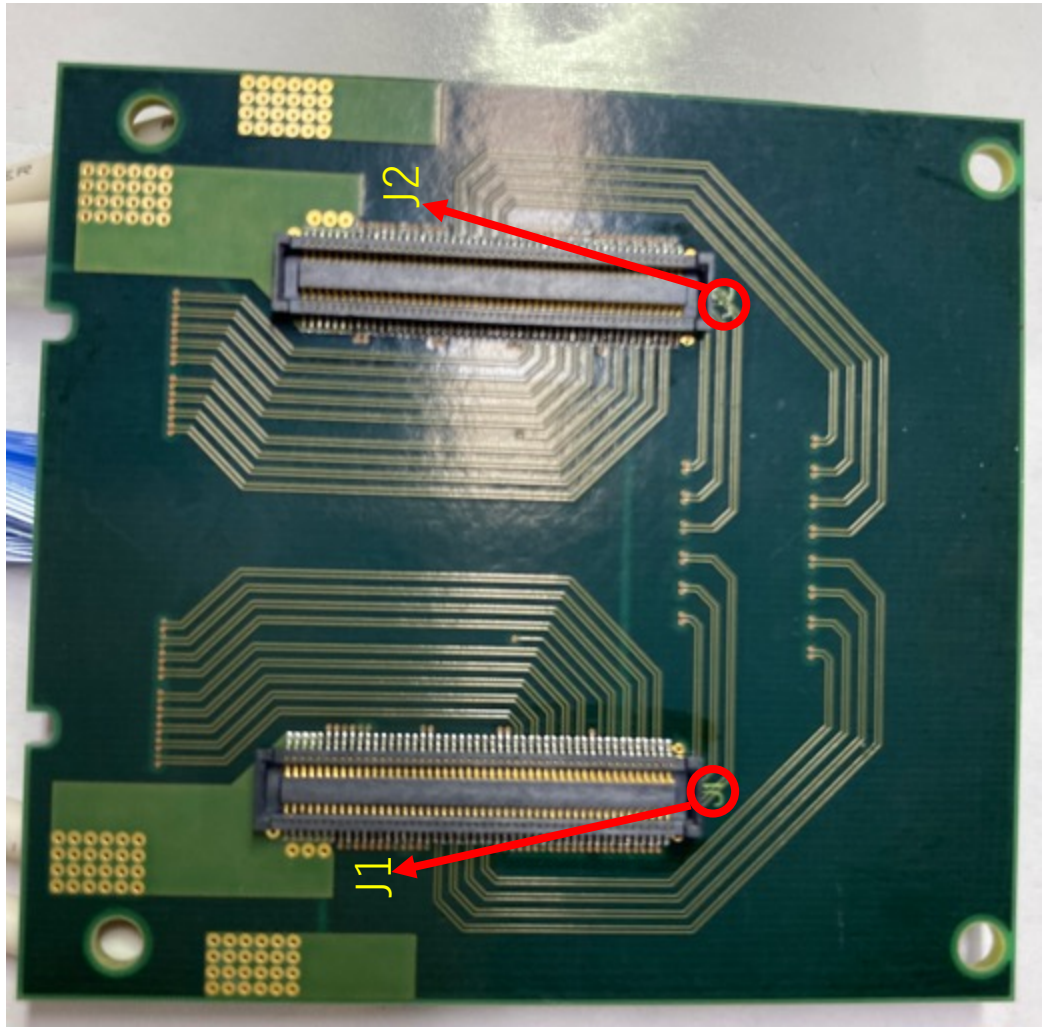
Full Configuration at ROC



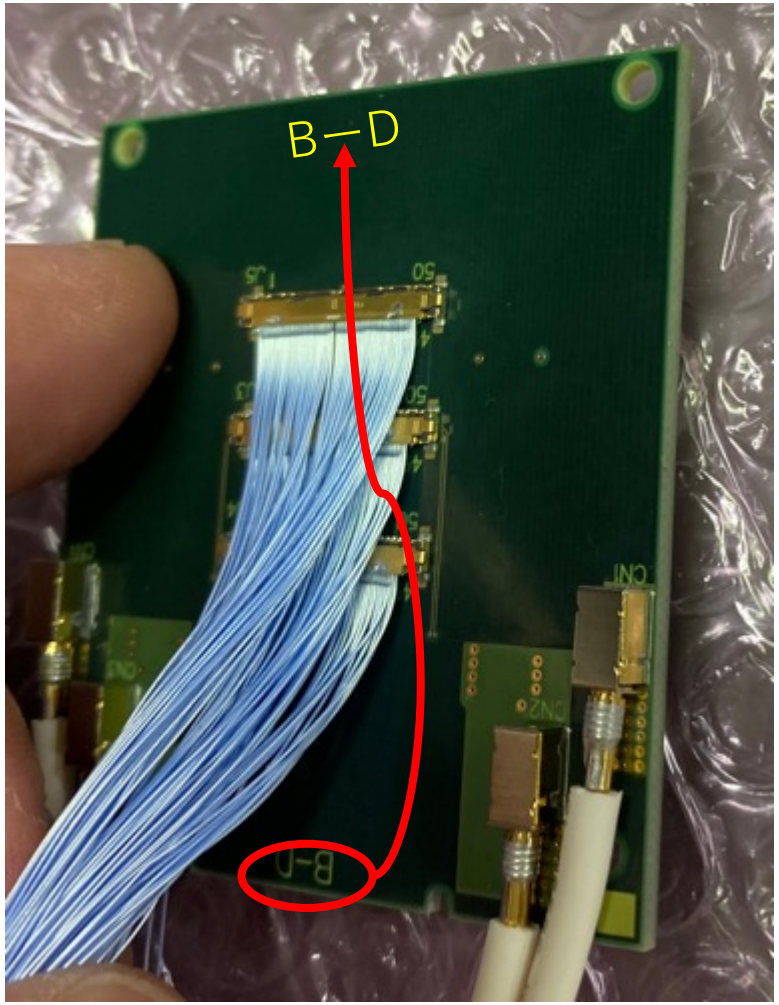


Quite messy, but connectors/cables are not interfering each other. Bundling each cables will clean up a bit. So far no necessity of further modification in the ROC connector board design. I am inclined to go for the production with the current design of the ROC side connector.

ROC Side Connector Board



Relocate J1/J2 symbols to the sides of DF18 connectors

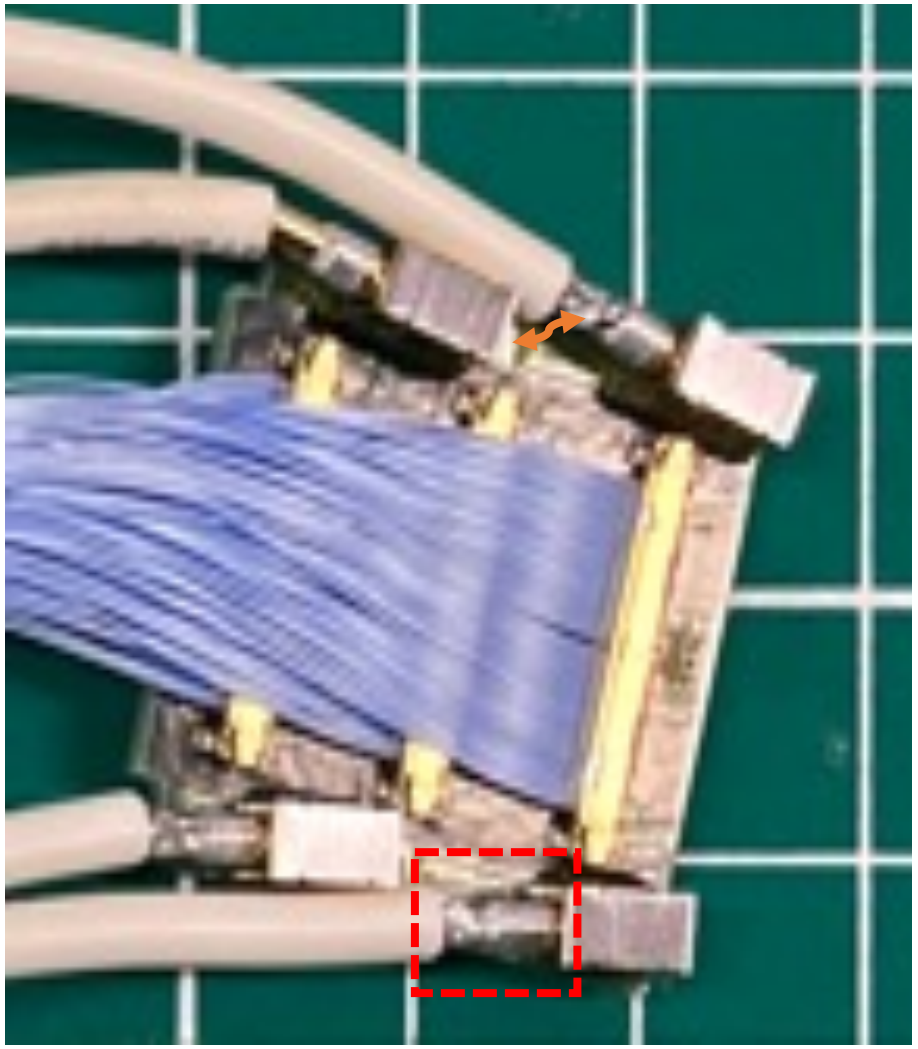


AC/BD Symbols are hidden by the harness.
Relocate to the top of the board

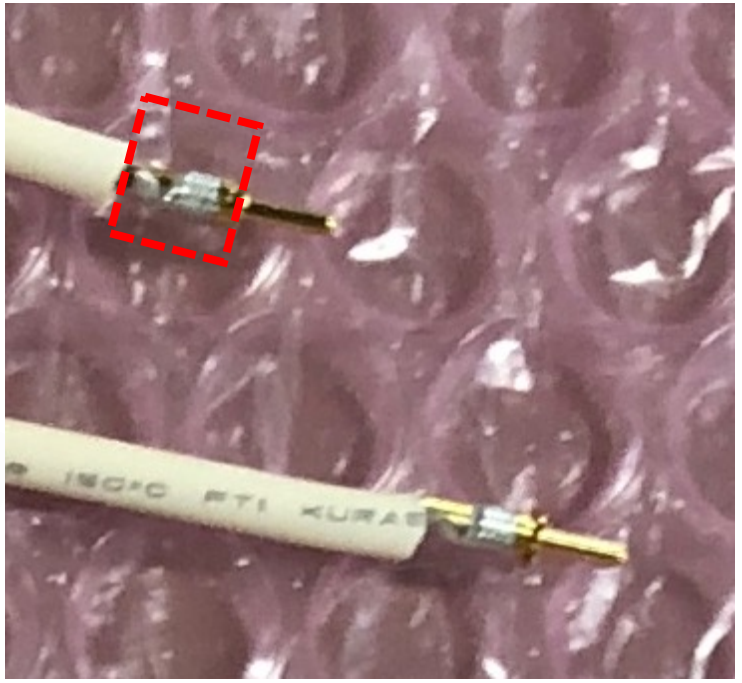
Cable Bundling

- Cables are better be bundled.
- Bundle μ-coax harness seems mandatory
- Shall we bundle GND/Power cables altogether?

Exposed Metal of Power/GND cables



- Possible short risk between power cable and GND socket
- The male pin suppose to be covered by a heat shrink
- Use different color for AC type (white) and BD type (Yellow)



Quantities

On 2022/03/24 4:27, Dan Cacace wrote:

Hi Itaru,

We have come to the conclusion that we want to use 15cm (6") long micro-coax cables as the default and have a number of 25cm (10") long micro-coax cables as a backup, should we need to switch the location of the connection on the ROC. I will leave it to you and Rachid to determine exactly how many cables of each type to be ordered. We require 56*2 = 112*3 = 336 micro-coax cables 15cm long at minimum, plus spares.

	Conversion Cable	Harness	GND/Power Cable
Type	15cm	25cm	25cm
AC	56 + 10 spares	3sets x 1port x 16ROCs	4 x 1port x 16ROCs
BD	56 + 10 spares	3sets x 1port x 16ROCs	4 x 1port x 16ROCs
Total	112 + 20 spares	96 sets	128 Cables
Cost Estimate	~ $0.1M	~ $10k	