

# Preparatory meeting for LAPPD Beam Test in October 2022 at CERN

Deb Sankar Bhattacharya, on behalf of Trieste Group

3 Aug 2022

# Motivation

- **Identify the logistics**
- **Procure them**

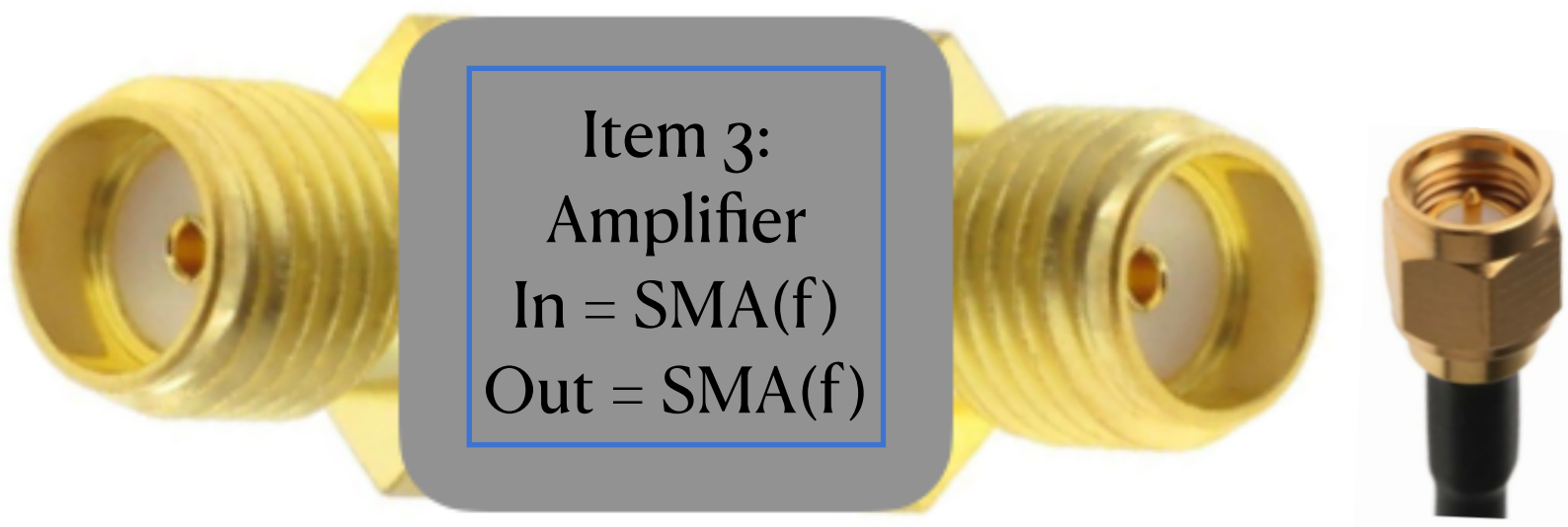
**Considering to read out 32 channels to readout**



Item 1:  
INCOM Board  
out = SMA(f)

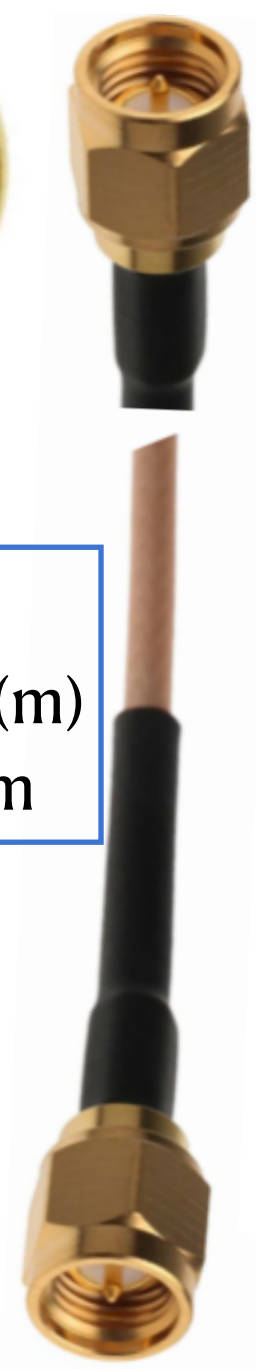


Item 2:  
SMA(m)-SMA(m)  
Cable = 0.5 m



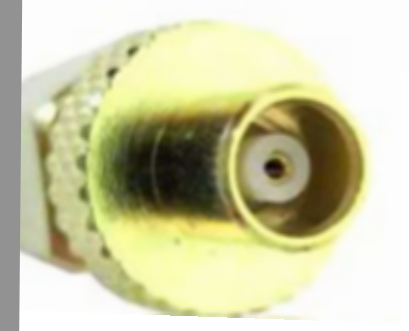
Item 3:  
Amplifier  
In = SMA(f)  
Out = SMA(f)

Item 4:  
SMA(m)-SMA(m)  
Cable = 0.5 m

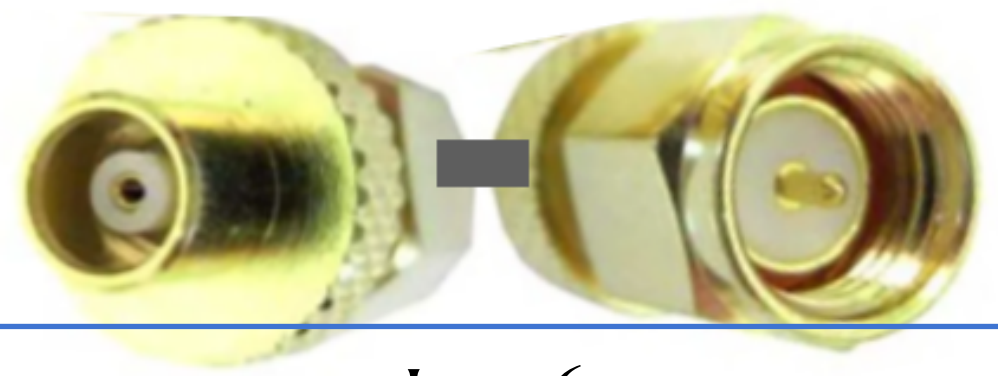


Item 5:  
In = SMA(f)  
Out = SMA(f)  
Connector = feedthrough

Item 8:  
VME  
In = MCX(f)



Item 7:  
MCX(m) - MCX(m)  
Cable = 1.5 m



Item 6:  
SMA(m)-MCX(f)  
Connector/Adapter  
(because we have many of the item 7)





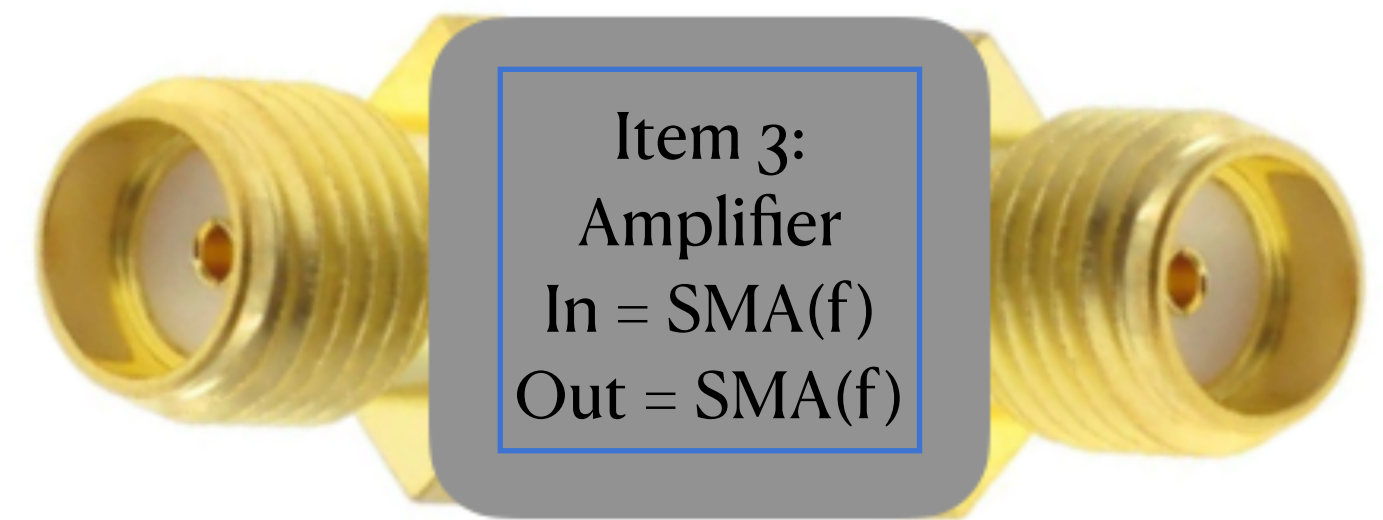
Item 1:  
INCOM Board  
out = SMA(f)

32+32 = 64 channels



Item 2:  
SMA(m)-SMA(m)  
Cable = 0.5 m

Item 2 and 4:  
We have = 43  
We need = 64  
**need to order = 21**

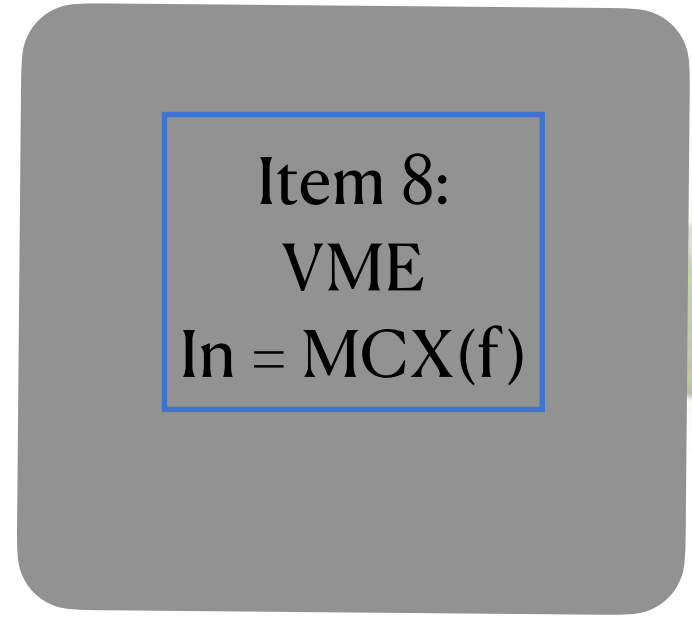


Item 3:  
Amplifier  
In = SMA(f)  
Out = SMA(f)

Item 3:  
We have = x  
We need = x



Item 4:  
SMA(m)-SMA(m)  
Cable = 0.5 m

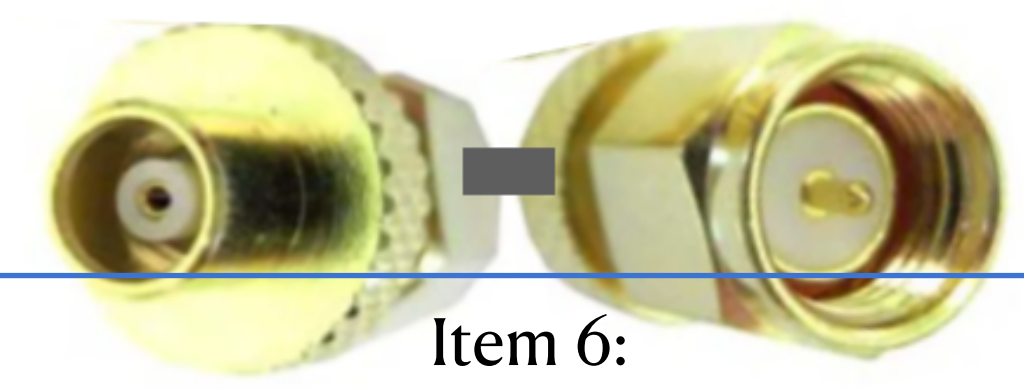


Item 8:  
VME  
In = MCX(f)



Item 7:  
MCX(m) - MCX(m)  
Cable = 1.5 m

Item 7:  
We have = 40  
**We need = 32**



Item 6:  
SMA(m)-MCX(f)  
Connector/Adapter  
(because we have many of the item 7)

Item 6:  
We have = 52  
**We need = 32**



Item 5:  
We have = 68  
**We need = 64**

Item 5:  
In = SMA(f)  
Out = SMA(f)  
Connector = feedthrough



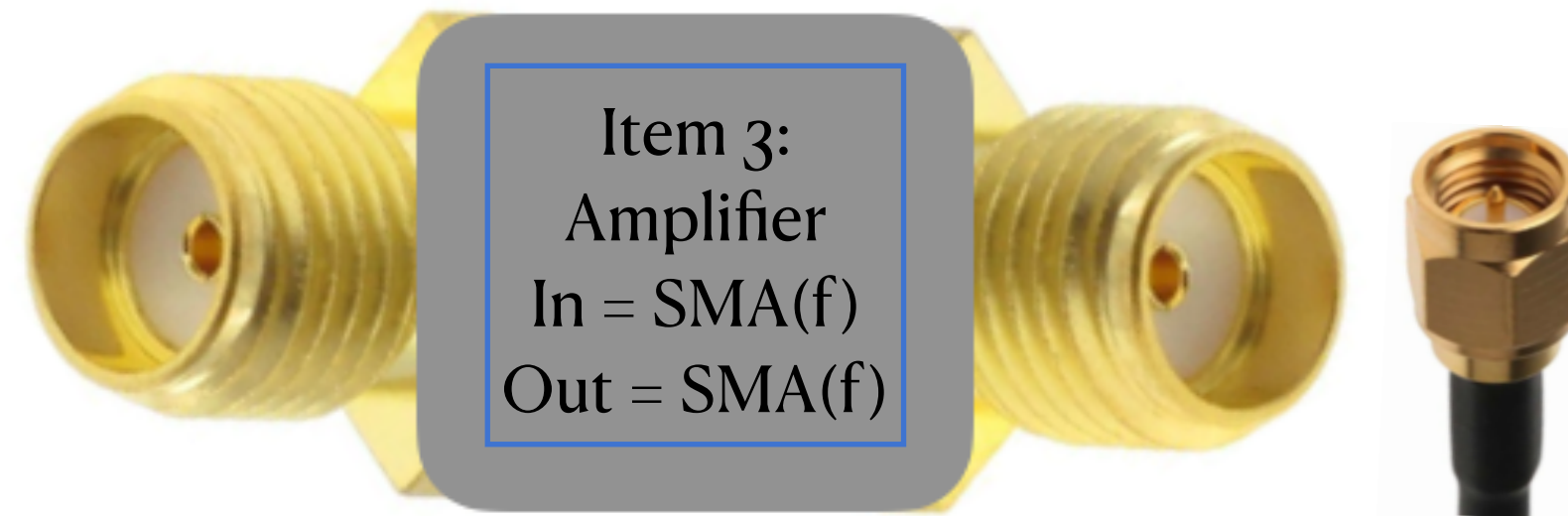
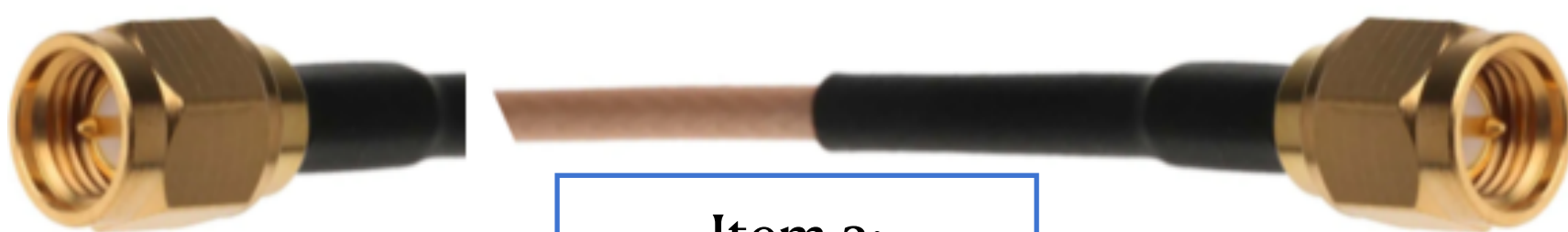
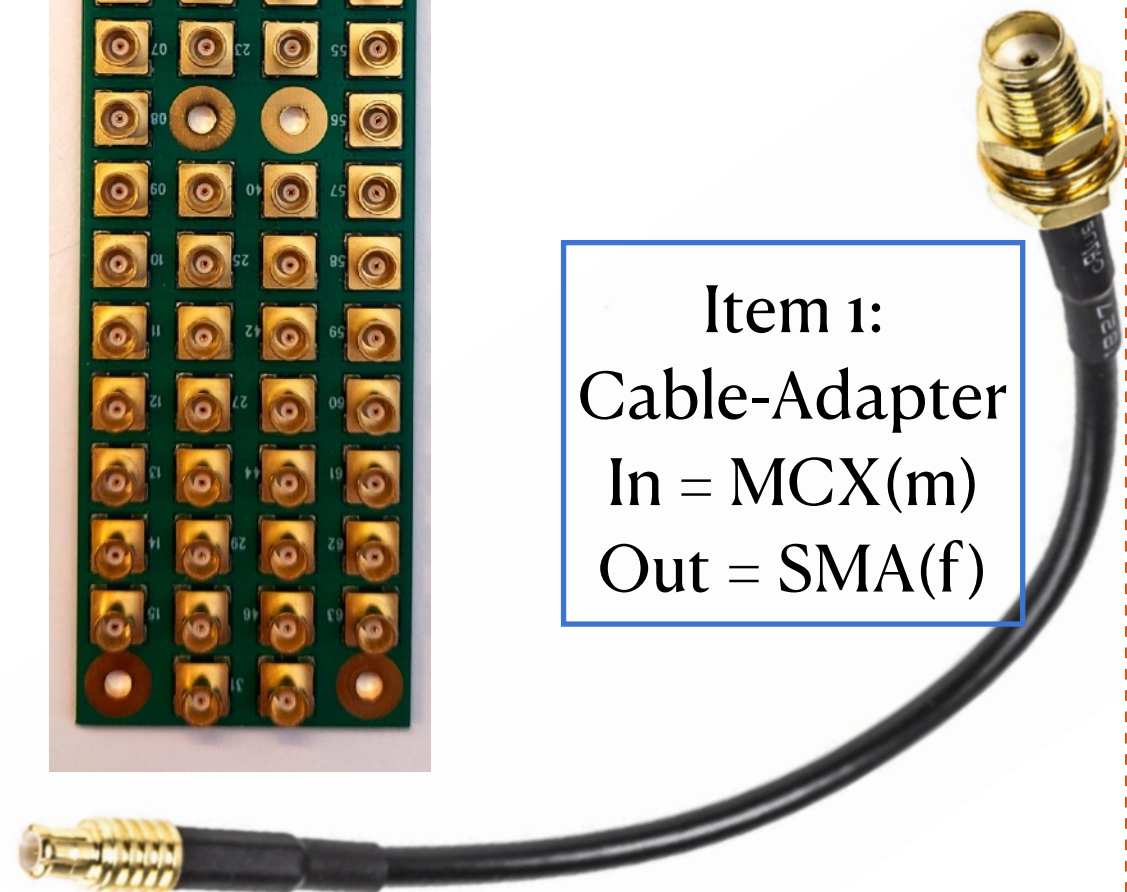
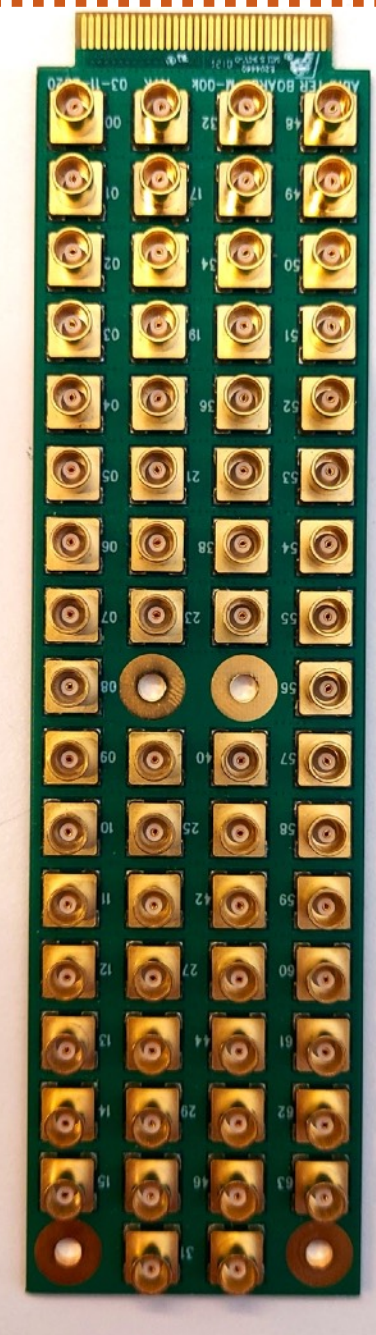
Item 0:  
BNL Board  
Out = MCX(f)

Item 1:  
Cable-Adapter  
In = MCX(m)  
Out = SMA(f)

Item 2:  
SMA(m)-SMA(m)  
Cable = 0.5 m

Item 3:  
Amplifier  
In = SMA(f)  
Out = SMA(f)

Item 4:  
SMA(m)-SMA(m)  
Cable = 0.5 m

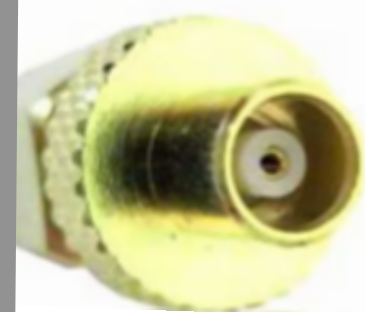


Item 8:  
VME  
In = MCX(f)

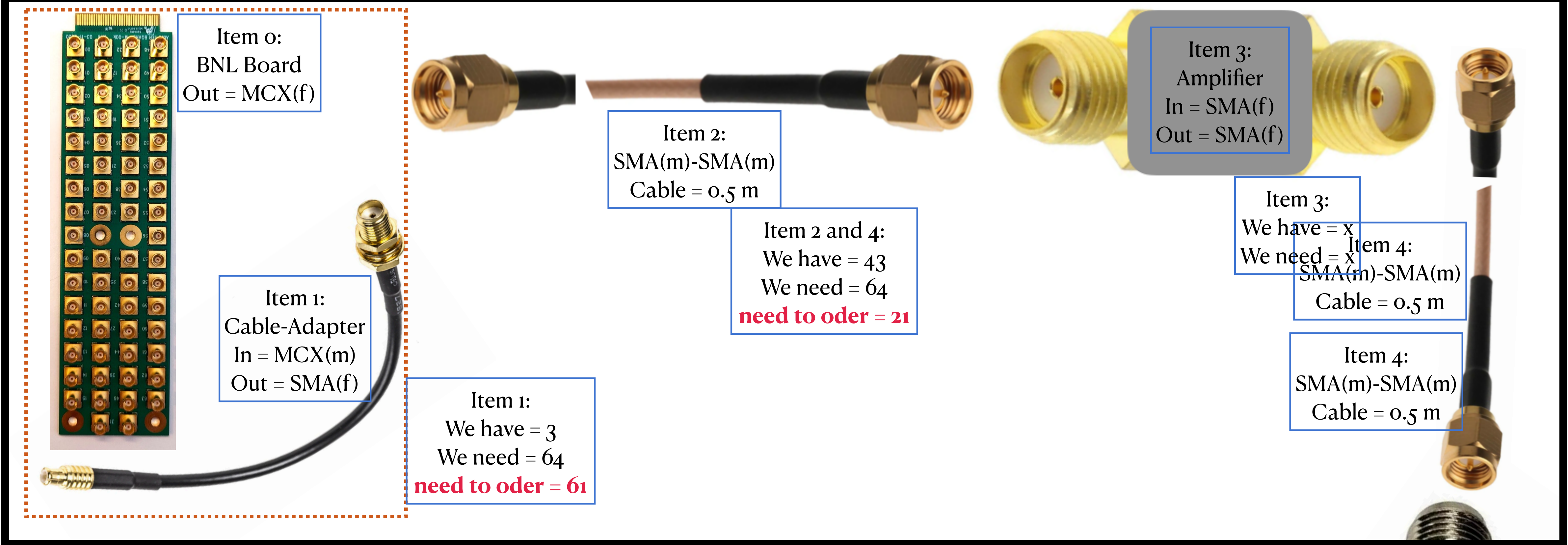
Item 7:  
MCX(m) - MCX(m)  
Cable = 1.5 m

Item 6:  
SMA(m)-MCX(f)  
Connector/Adapter  
(because we have many of the item 7)

Item 5:  
In = SMA(f)  
Out = SMA(f)  
Connector = feedthrough







Item 0:  
BNL Board  
Out = MCX(f)

Item 1:  
Cable-Adapter  
In = MCX(m)  
Out = SMA(f)

Item 1:  
We have = 3  
We need = 64  
**need to order = 61**

Item 2:  
SMA(m)-SMA(m)  
Cable = 0.5 m

Item 2 and 4:  
We have = 43  
We need = 64  
**need to order = 21**

Item 3:  
Amplifier  
In = SMA(f)  
Out = SMA(f)

Item 3:  
We have = x  
We need = x

Item 4:  
SMA(m)-SMA(m)  
Cable = 0.5 m

Item 4:  
SMA(m)-SMA(m)  
Cable = 0.5 m

Item 8:  
VME  
In = MCX(f)



Item 7:  
MCX(m) - MCX(m)  
Cable = 1.5 m

Item 7:  
We have = 40  
**We need = 32**



Item 6:  
SMA(m)-MCX(f)  
Connector/Adapter  
(because we have many of the item 7)

Item 6:  
We have = 52  
**We need = 32**



Item 5:  
We have = 68  
**We need = 64**

Item 5:  
In = SMA(f)  
Out = SMA(f)  
Connector = feedthrough

## What do we need to buy?

Configuration - 1 [INCOM - Board]:

**21 SMA(m)-SMA(m) Cable of 0.5 m**

Configuration - 2 [BNL - Board]:

**61 Cable-Adapter MCX(m) - SMA(f) of 0.1 m  
[for 64 channels]**

**Thank you!**

**Comments/Questions?**