

Preparatory meeting for LAPPD Beam Test in October 2022 at CERN

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Motivation

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

Considering to read out 64 channels

up to the Amplifier input

Considering the possibility of two types of Readout Boards

<u>What to Connect</u>	<u>Type</u>	<u>Details</u>	<u>Remarks</u>	<u>Length</u>	<u>Quantity</u>	<u>We have</u>
Detector Readout Board	Cable adapter/ Connectors	MMCX(m) - SMA (f)	for BNL board	NA	64	3 (0.1 m)
from readout board to Amplifier	Cables	SMA(m) - SMA(m)	for both INCOM and BNL board	1 m (0.5 m?)	64	43 (0.5 m)

from the Amplifier output

<u>What to Connect</u>	<u>Type</u>	<u>Details</u>	<u>Remarks</u>	<u>Length</u>	<u>Quantity</u>	<u>We have</u>
from Amplifier output	Cables	SMA(m) - SMA(m)	to the window panel	1 m (0.5 m?)	64	43 (0.5 m) <i>entry repeated</i>
on the window panel	Connectors	SMA(f) - SMA(f) feedthroughs	on the window panel	NA	64	68
on the window panel	Connectors	SMA(m) - MMCX(f)	for MMCX cables	NA	64	52
from the window panel	Cables	MMCX (m) - MMCX (m)	to the VME	1.5 m	64	40 (1.5 m) 2 (0.5 m) 5 (0.15 m)

The HV window panel

<u>What to Connect</u>	<u>Type</u>	<u>Details</u>	<u>Remarks</u>	<u>Length</u>	<u>Quantity</u>	<u>We have</u>
LAPPD HV	feedthrough	SHM	for LAPPD and spare	NA	5+1 = 6	all
BNC	feedthrough	BNC	LV for (trigger/monitor)	NA	2(3?)	all
LASER	cable/Opt-Fiber	cable/Opt-Fiber	to Drive Light	2 m for Opt-Fiber?	1	none
Do I miss anything	?	?	?	?	?	?

may be susceptible magnetic field

MMCX(m) - SMA (f) = connector

<https://it.rs-online.com/web/p/adattatori-coassiali/0494755> [€ 55.95 each for 50 - 99] [1 week after 15 August] [need 64 => € 3584]

MMCX(m) - SMA (f) = Cable-connector

<https://it.rs-online.com/web/p/cavi-coassiali/7043518/?relevancy-data=736561> [€ 6.58 each for 50+] [18 days, if placed now]

[need 64 => € 428]

Tax is not included*

may be susceptible magnetic field

SMA(m) - SMA(m) = cables

<https://it.rs-online.com/web/p/cavi-coassiali/5260308> [€ 11.32 each for 50 - 99] [17 working days] [need 64+64-43 = 85 => € 962]

SMA(m) - MMCX(f) = connectors

<https://it.rs-online.com/web/p/adattatori-coassiali/7620005> [€ 6.95 each for more than 5] [1 week after 17 Aug] [need 12 => € 60]

MMCX (m) - MMCX (m) = cables (1.5 m)

<https://www.digikey.it/it/products/detail/amphenol-rf/265101-08-60-00/9655895> [€ 514.54 for 25] [14 weeks]

MMCX (m) - MMCX (m) = cables (1.0 m)

[need 14 => €200]

<https://it.rs-online.com/web/p/cavi-coassiali/5260308> [€ 13,40 for 10-24] [17 days, if placed today]

Tax is not included*

Thank you!

Comments/Questions?