

FIT fibers for Run 3&4

By Giuseppe Simonetti
ALICE-DAQ, O2-Project WG17

FIT	Length [m]	All Detector		
		C-side	Spare	Total
FEE cards		25		25
DAQ-Trigger-Ctrl Fibers		50		50
Not used Fibers		46		46
Spare Fibers			48	48
Total Fibers		144		144
MPO-12LC patch-cords (Pit):				
1 m fan-out included	5.0	6	2	8
Terminal plates 1U 6xMPO-MPO (Pit)		3		3
Sub-racks 1U (Pit)		1		1
Trunk cables of 48 fibers:				
Type A	140.0	2	1	3
Sub-racks 4U (CR1)				
Terminal plates 3U 6xMPO-MPO (CR1)		3		3
MPO-MPO patch-cords (CR1):				
base-12	5.0	6	2	8
# CRUs		2	0	2

Detector	FIT Laser system					Length (m)
	Fibers		From	To	Fiber type	
	Used	Spare				
FIT TO+A	1	1	Patch-panel Mini Frame	C33	FVP100110125, black LSZH 2mm OD w. Kevlar	34
	2					
FIT TO+A	2	2	Patch-panel Mini Frame	C33	50/125 OM3 dispersion compensated fiber	34
	4					
FIT TO+C	2	1	Patch-panel Back Frame	C33	FVP100110125, black LSZH 2mm OD w. Kevlar	33
	3					
FIT TO+C	2	2	Patch-panel Back Frame	C33	50/125 OM3 dispersion compensated fiber	33
	4					
FIT VO+	4	2	Patch-panel Mini Frame	C33	50/125 OM3 dispersion compensated fiber	33
	6					

Material and number of fibers for FIT (DAQ + Laser system)



Material and number of Single Mode fibers for CTP GPON

CTP GPON Standard	Length [m]	TPC (1x64)	TRD (3x16)	TOF (1x4)	MCH (1x32)	MID (1x2)	FIT (1x2)	ZDC	ACO	CTP	Spare	Total	
GPON link		6	3	1	1	1	1	1	1	1	0	16	
Optical passive splitter		6	3	1	1	1	1	0	0	0	0	13	
GPON fibers		6	3	1	1	1	1	1	1	0	33	48	
Total fibers		15										33	48
MPO-12SC/UPC patch-cords:													
50 cm fan-out included	3.0	2										3	5
Terminal plate 12xMPO-MPO (Pit)		1											1
Sub-racks 4U (Pit)		0											0
Trunk cables of 48 fibers:													
Single Mode	145.0	1											1
Sub-racks (CR1)		0											0
Terminal plate 2MPO-24LC/APC (CR1)		2											2
LC/APC-SC/APC patch-cords (to splitters)	10.0	6	3	1	1	1	1	0	0	0	7	20	
LC/APC-SC/UPC patch cords (direct to CRU)	10.0	0	0	0	0	0	0	1	1	0	3	5	
LC/APC-SC/UPC patch cords (direct to CRU)	5.0	0	0	0	0	0	0	0	0	1	4	5	
SC/APC-SC/UPC patch-cords (to other CRUs)	5.0	360	37	4	32	2	2	0	0	0	23	460	