

MID fibers for Run 3&4

By Giuseppe Simonetti
ALICE-DAQ, O2-Project WG17

Level 4 (MID)



Material and number of OM3 fibers for MID (DAQ)

MID	Length [m]	Q.ty xH.Layer	All Detector				
			I-side	Spare	O-side	Spare	Total
Half Layers		1	8		8		16
GBTx		2	16		16		32
DAQ-Trigger-Ctrl Fibers		4	32		32		64
Not used Fibers		2	16		16		32
Spare Fibers		6		48		48	96
Total Fibers		12	96		96		192
MPO-12LC patch-cords (Pit):							
1.5 m fan-out included	4.0		4	2	4	2	12
Terminal plates 1U 6xMPO-MPO (Pit)			2		2		4
Sub-racks 1U (Pit)			1		1		2
Trunk cables of 48 fibers:							
Type A	117.0		1	1	1	1	4
Sub-racks 4U (CR1)							
Terminal plates 3U 6xMPO-MPO (CR1)			2		2		4
MPO-MPO patch-cords (CR1):							
base-12	5.0		4	2	4	2	12
# CRUs			1		1		2

EN/EL installation

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

EN/EL installation