

	Rods	Fibres / Rod	Fibres	Ribbons Needed / Layer
TOB6	74	18	1332	111
TOB5	66	18	1188	99
TOB4	60	12	720	60
TOB3	54	12	648	54
TOB2	48	24	1152	96
TOB1	42	24	1008	84
TIB4	54	12	648	54
TIB3	45	12	540	45
TIB2	36	36	1296	108
TIB1	28	36	1008	84
TID3				
TID2				
TID1				

	Ribbons / SECTOR																	Ribbons Used / Layer		
	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18				
TOB6	0	16	0	8	8	6	8	0	16	8	8	8	0	16	0	16	118			
TOB5	0	8	8	0	8	6	8	8	6	8	8	8	0	6	8	14	104			
TOB4	8	0	8	0	8	0	7	0	7	0	8	0	7	0	7	0	60			
TOB3	7	0	8	0	8	0	8	0	8	0	8	0	8	0	7	0	54			
TOB2	16	0	8	0	8	8	0	8	0	16	0	8	8	8	8	0	96			
TOB1	8	0	0	22	0	0	8	8	0	0	8	8	8	8	8	0	84			
TIB4	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	56			
TIB3	0	8	0	0	8	8	0	0	8	0	0	8	8	0	0	0	48			
TIB2	8	8	8	6	6	5	8	8	8	8	8	6	6	5	8	8	114			
TIB1	8	6	8	8	0	0	6	8	8	6	8	8	0	0	6	8	88			
TID3					4	6	6			4					6	6	32			
TID2					6					6				4		6	32			
TID1					7	0	0	10	0	4	7	0	0	8	1	4	2	2	36	
TOB DARK RIBBONS					2	2	2	2	2	2	2	2	2	2	2	2	2	2	32	
TIB/TID DARK RIBBONS																				
	71	54	61	62	61	51	61	60	63	62	69	62	59	59	69	62			986	

AVG: 61.63
DevStd: 5.084

	Spare Fibres / SECTOR inside detector																		
	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18			
TOB6	0	12	0	6	6	0	6	0	6	0	12	6	6	6	0	12	0	12	84
TOB5	0	6	6	0	6	0	6	0	6	6	6	6	0	0	6	6	0	6	60
TOB4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOB DARK RIBBONS	12	0	0	120	0	44	12	0	36	0	0	36	12	48	24	24	432		
TIB4	0	6	6	0	0	0	0	0	6	0	6	0	0	0	0	0	0	24	
TIB3	0	6	0	0	6	6	0	0	6	0	6	0	0	6	6	0	0	36	
TIB2	6	6	6	0	0	6	6	6	6	6	6	6	0	0	6	6	6	72	
TIB1	6	0	6	6	0	0	0	0	6	6	6	6	0	0	0	0	6	48	
TID 1-2-3	0	0	0	0	0	0	0	0	8	16	0	0	0	0	0	8	16	48	
DARK FIBRES (TOB's RIBBONS)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	384
DARK FIBRES (TIB's RIBBONS)																			
	54	54	48	156	42	84	62	58	90	48	54	138	42	96	68	94		1188	

Cassettes needed >>>>
(Max 4)

	96-fibres Cable / SECTOR																		
	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18			
TOB6	0	2	0	1	1	1	1	0	2	1	1	1	0	1	0	2	15		
TOB5	0	1	1	0	1	1	1	0	1	1	1	1	0	1	0	2	14		
TOB4	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	8		
TOB3	1	0	1	0	0	1	0	1	0	1	0	1	0	1	0	1	7		
TOB2	2	0	1	0	1	1	1	0	2	0	1	1	1	1	1	0	12		
TOB1	1	0	0	3	0	0	1	1	0	0	1	1	1	1	1	0	11		
TOB DARK CABLES	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2		
TIB4	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	8
TIB3	0	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	6	
TIB2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
TIB1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	12
TID 1-2-3	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	18
DARK CABLES	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	16
	10	8	9	9	9	8	9	9	9	9	10	9	9	9	10	9			145

	SPARE Ribbons / SECTOR outside detector																		
	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18			
TOB6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2		
TOB5	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	2		
TOB4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0		
TOB3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
TOB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOB1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0		
TOB DARK CABLES' RIBBONS	0	0	0	8	0	0	0	0	0	0	0	0	8	0	0	0	0		
TIB4	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	8
TIB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIB2	0	0	0	2	2	3	0	0	0	0	0	0	2	2	3	0	0	14	
TIB1	0	2	0	2	0	0	2	0	0	2	0	0	0	0	0	2	0	8	
TID 1-2-3	2	2	2	2	2	4	2	2	2	2	2	2	2	2	4	2	4	1	48
DARK CABLES' RIBBONS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	128
	12	12	11	22	13	17	16	16	14	12	11	20	14	17	17	18			242

	TOT SPARE Fibres / SECTOR outside detector																		
	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18			
TOB6	0	12	0	6	6	24	6	0	12	6	6	6	0	12	0	12	0	12	108
TOB5	0	6	6	0	6	24	6	6	6	6	6	6	0	24	6	6	6	6	156
TOB4	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	12	0	48	
TOB3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	24	
TOB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOB1	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24	0	0	48	
TOB DARK CABLES' RIBBONS	0	0	0	96	0	0	0	0	0	0	0	0	96	0	0	0	0	192	
TIB4	18	0	18	0	12	0	12	0	18	0	18	0	12	0	12	0	12	0	120
TIB3	0	6	0	6	6	0	6	0	6	0	6	0	6	6	0	6	0	36	
TIB2	6	6	6	24	24	36	6	6	6	6	6	6	24	24	36	6	6	240	
TIB1	6	24	6	6	0	0	6	6	6	6	6	6	6	0	0	24	6	144	
TID 1-2-3	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	624
DARK FIBRES (TOB's RIBBONS)																			0
DARK FIBRES (TIB's RIBBONS)																			
DARK CABLES' RIBBONS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	1536
	162	174	156	276	174	216	238	226	198	168	162	258	174	228	224	262			3276

	Full FED		Non-Full FED		
	#	Ribbons / FED	#	Ribbons / FED	
TOB6	14	8	1	6	118
TOB5	10	8	4	6	104
TOB4	4	8	4	7	60
TOB3	5	8	2	7	54
TOB2	12	8	0	0	96
TOB1	9	8	2	6	84
TIB4	0	8	0	7	56
TIB3	6	8	0	0	48
TIB2	10	8	6	4x6, 2x5	114
TIB1	8	8	4	6	88
TID3	0	8	6	4x6, 2x4	32
TID2	0	8	5	4x6, 2x4	32
TID1	0	8	6	4x6, 2x4	32

