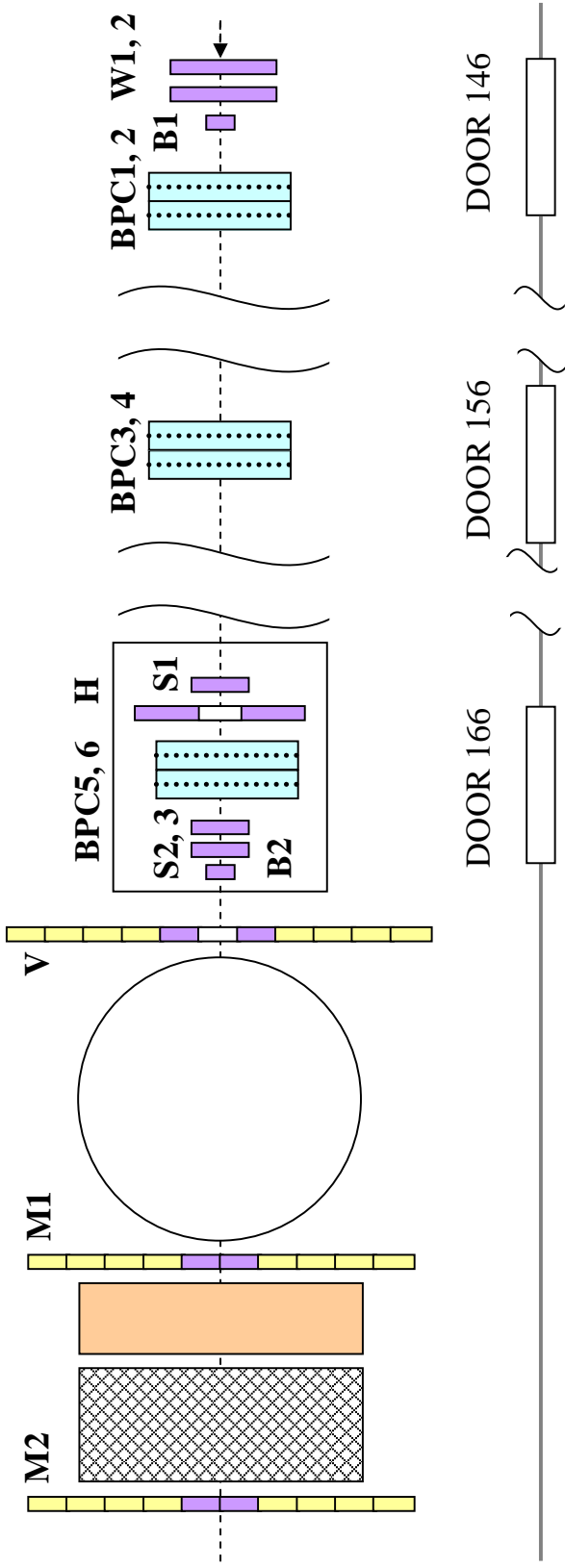


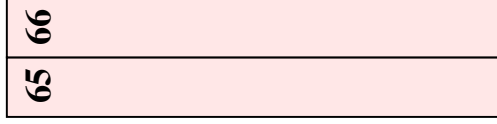
Beam detectors in CR 2004



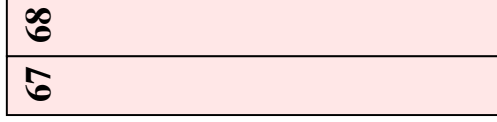
Counter and cables

Counter	Dimension, mm	Cable	Length, ns
S1	65x65	71	30
S2	75x75	72	25
S3	75x75	72	25
H	300x300, hole D60	74	25
B2	30x30x12.5	F1	20

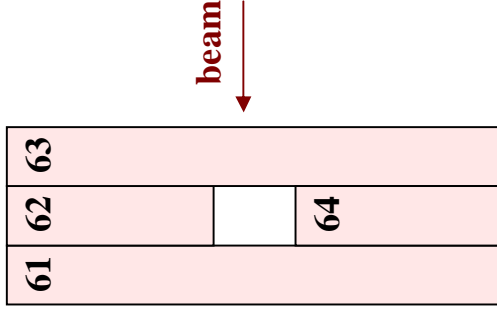
M2



M1



V



Cables length measured by back reflection from PP side

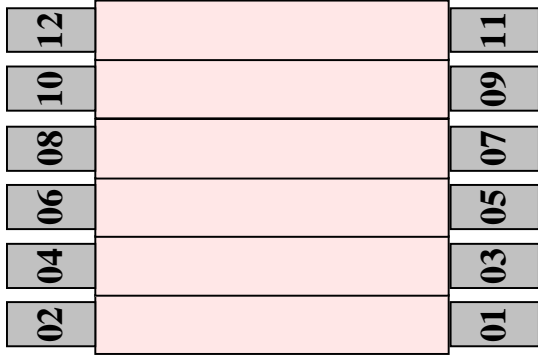
Cable	Length, ns
61	16
62	16
62	16
64	34
65	72
66	71
67	54
68	54

HV CAEN-SY527 modules A734N

Slot 1				Slot 4			
ch	cab	Counter	HV	ch	cab	Counter	HV
0		S1		0	61	V-L	1060
1		S2		1	62	V-U	1010
2		S3		2	63	V-R	1020
3		TC1		3	64	V-D	1160
4		TC2		4	67	M1-L	1200
5		TC3		5	68	M1-R	1060
6		TC4		6	65	M2-L	1180
7		TC5		7	66	M2-R	1180
8		TC6		8	36	B1	1150
9		H		9	37	W1	1450
10		B2		10	38	W2	1450
11				11			
12				12			
13				13			
14				14			
15				15			

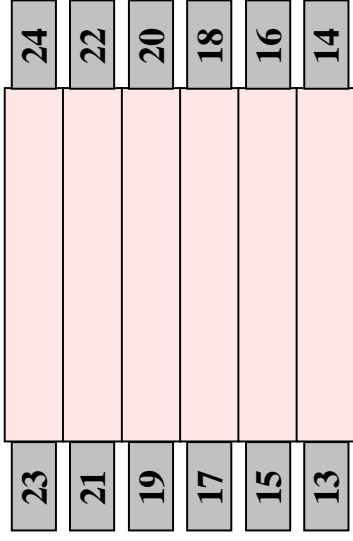
WTC cables numbering

Layer 1

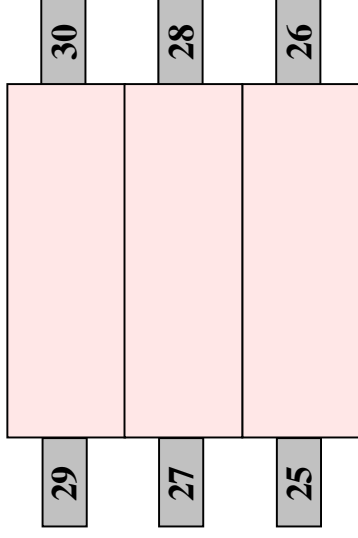


Coax cables length 130 – 142 ns

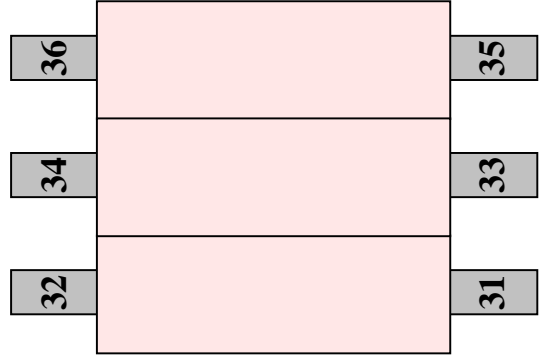
Layer 2



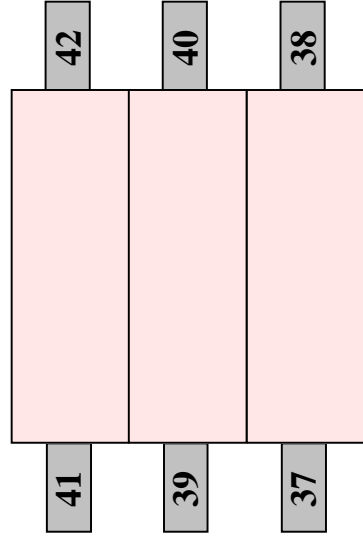
Layer 3



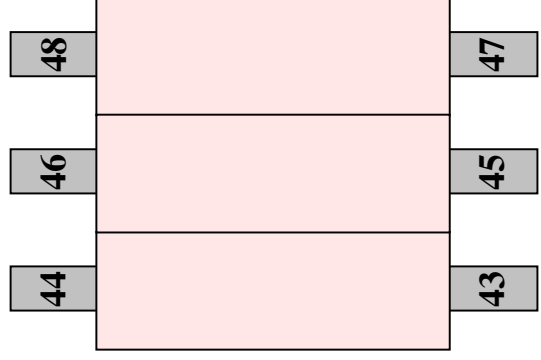
Layer 4



Layer 5



Layer 6



Pattern units bits

CH	PU1 0x302C	PU2 0x202C	PU3 0x ????
0	W1	W	W
1	W2	PL	H
2	B1	H	
3	S1	PR	
4	S2	M1	
5	S3	M2	
6	B2	MU	
7	V1	RN	
8	V2	GN	
9	V3	CA	
10	V4	TR	
11	M1-L		
12	M1-R		
13	M2-L		
14	M2-R		
15			

Multiscaler

CH	Signal
1	clock
2	
3	
4	
5	W
6	MU
7	PR
8	GN
9	RN
10	CA
11	TR
12	ACC

TDC channels

CH								
0	CLK1	V1	BPC	BPC	BPC	BPC	BPC	BPC
1	CLK2	V2	BPC	BPC	BPC	BPC	BPC	BPC
2	S1	V3	BPC	BPC	BPC	BPC	BPC	BPC
3	S2	V4	BPC	BPC	BPC	BPC	BPC	BPC
4	S3	M1-L	BPC	BPC	BPC	BPC	BPC	BPC
5	B2	M1-R	BPC	BPC	BPC	BPC	BPC	BPC
6	H	M2-L	BPC	BPC	BPC	BPC	BPC	BPC
7	W	M2-R	BPC	BPC	BPC	BPC	BPC	BPC

Coaxial cables between sides

sides	Cable #	Length	Function
Hut-D166	1, 2, 5, 6 27	315 ns	Was DAC for F1, F2 ???
Hut-Platform	3, 4 10 16, 18, 20, 24, 28	315 ns	Was F1, F2 signals CLK Was Cal., Trig
Platform-D146	55 56	172 ns 180 ns	B1 W
Hut-D146	41 42 43 44 45 46	315 ns	