

Sector 1

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333

Bundle 1 **Bundle 2** **Bundle 3** **Bundle 4** **Bundle 5**

DCDC

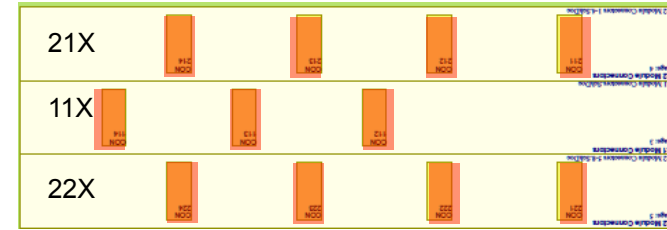
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333	323	313	224	214	443	433	423	413				
334	324	314	221	213	444	434	424	414	114	113	112	

A6C2 A5C2 A4C2 A3C2 A2C2 A1C2 A6C1 A5C1 A4C1 A3C1 A2C1 A1C1 A0C1

PP0 Side

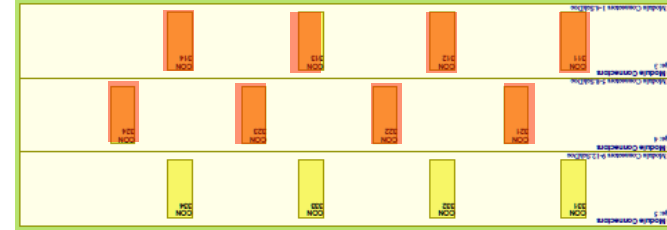
L12

Top View



L3

Bottom View



L4

Bottom View



Detector Side

Sector 2

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333
Bundle 1			Bundle 2			Bundle 3			Bundle 4		Bundle 5		

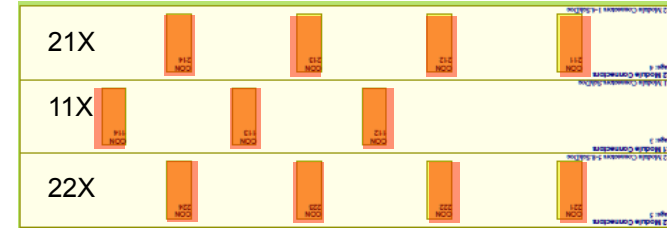
DCDC

12	11	10	9	8	7	6	5	4	3	2	1	0
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332	322	312	223	212	442	432	422	412				
333	323	313	224	213	443	433	423	413				
334	324	314			444	434	424	414	114	113	112	
A6C2	A5C2	A4C2	A3C2	A2C2	A1C2	A6C1	A5C1	A4C1	A3C1	A2C1	A1C1	A0C1

PP0 Side

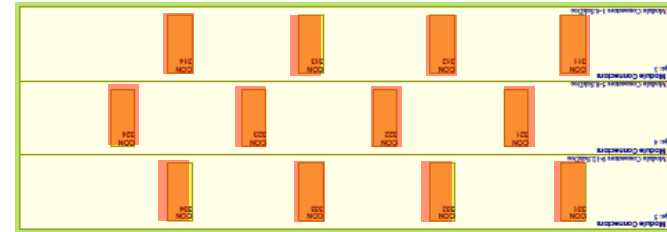
L12

Top View



L3

Bottom View



L4

Bottom View



Detector Side

Sector 3

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333

Bundle 1

Bundle 2

Bundle 3

Bundle 4

DCDC

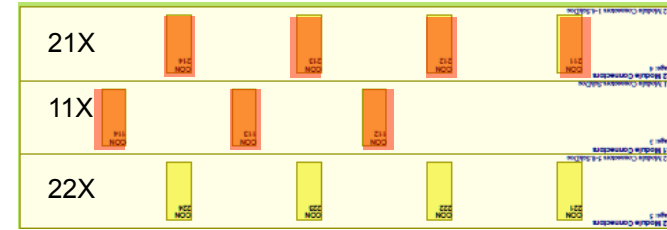
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332	322	312	223	212	442	432	422	412				
333	323	313	224	213	443	433	423	413				
334	324	314			444	434	424	414				

A6C2 A5C2 A4C2 A3C2 A2C2 A1C2 A6C1 A5C1 A4C1 A3C1 A2C1 A1C1 A0C1

PP0 Side

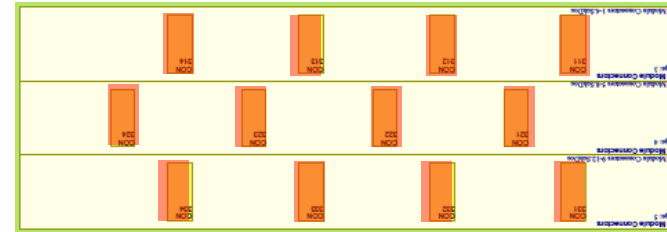
L12

Top View



L3

Bottom View



L4

Bottom View



Detector Side

Sector 4

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

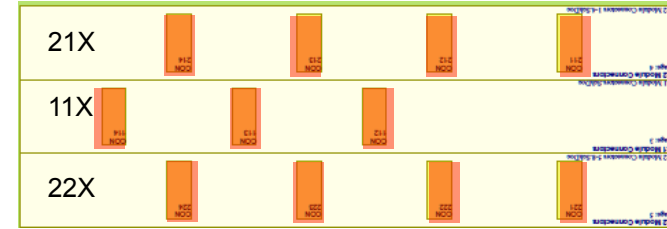
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112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333
Bundle 1			Bundle 2			Bundle 3			Bundle 4		Bundle 5		

DCDC

12	11	10	9	8	7	6	5	4	3	2	1	0
331	321	311	222	211	211	441	431	421	411	114	113	112
332	322	312	223	212	212	442	432	422	412			
333	323	313	224	214	212	443	433	423	413			
334	324	314	221	221	213	444	434	424	414			
A6C2	A5C2	A4C2	A3C2	A2C2	A1C2	A6C1	A5C1	A4C1	A3C1	A2C1	A1C1	A0C1

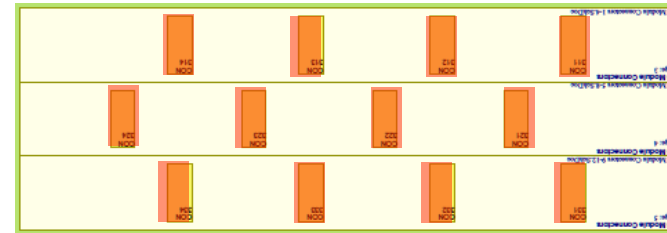
L12

Top View



L3

Bottom View



L4

Bottom View



PP0 Side

Detector Side

Sector 5

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333
Bundle 1			Bundle 2			Bundle 3			Bundle 4		Bundle 5		

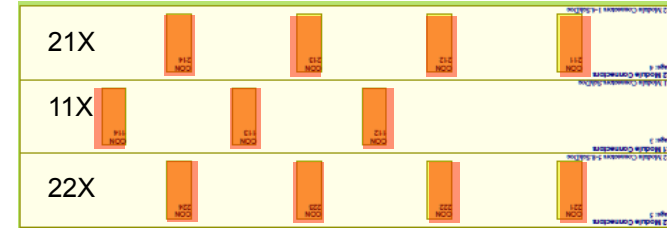
DCDC

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332	322	312	223	212	442	432	422	412				
333	323	313	224	214	443	433	423	413				
334	324	314	221	213	444	434	424	414	114	113	112	
A6C2	A5C2	A4C2	A3C2	A2C2	A1C2	A6C1	A5C1	A4C1	A3C1	A2C1	A1C1	A0C1

PP0 Side

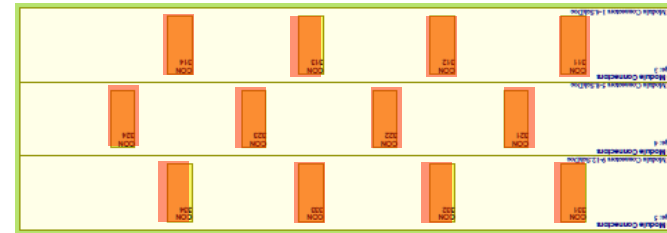
L12

Top View



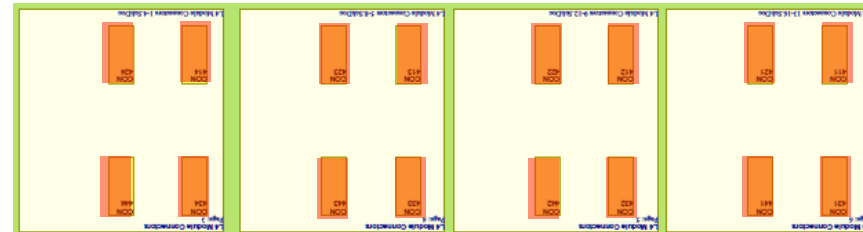
L3

Bottom View



L4

Bottom View



Detector Side

Sector 6

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333

Bundle 1

Bundle 2

Bundle 3

Bundle 4

DCDC

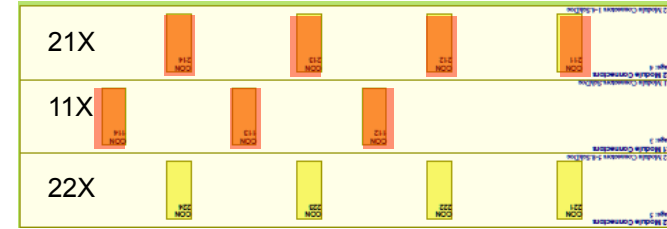
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332	322	312	223	212	442	432	422	412				
333	323	313	224	213	443	433	423	413				
334	324	314			444	434	424	414				

A6C2 A5C2 A4C2 A3C2 A2C2 A1C2 A6C1 A5C1 A4C1 A3C1 A2C1 A1C1 A0C1

PP0 Side

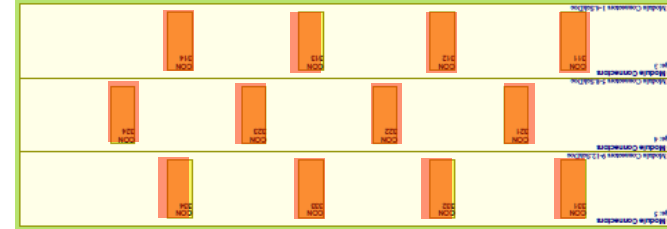
L12

Top View



L3

Bottom View



L4

Bottom View



Detector Side

Sector 7

Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333
Bundle 1			Bundle 2			Bundle 3			Bundle 4		Bundle 5		

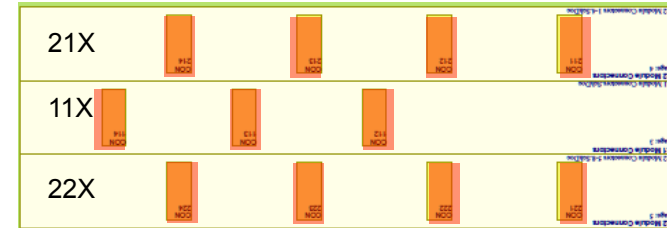
DCDC

12	11	10	9	8	7	6	5	4	3	2	1	0
331	321	311	222	211	441	431	421	411				
332	322	312	223	212	442	432	422	412				
333	323	313	224	213	443	433	423	413				
334	324	314			444	434	424	414	114	113	112	
A6C2	A5C2	A4C2	A3C2	A2C2	A1C2	A6C1	A5C1	A4C1	A3C1	A2C1	A1C1	A0C1

PP0 Side

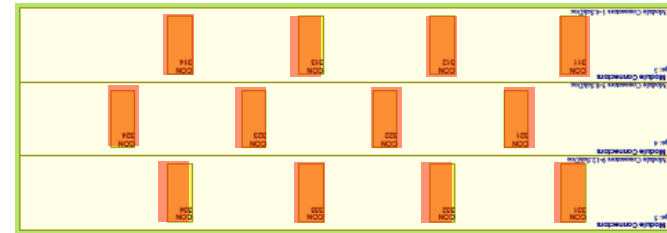
L12

Top View



L3

Bottom View



L4

Bottom View



Detector Side

Sector 8

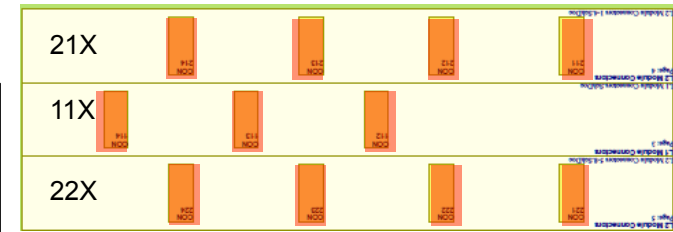
Sector 1: 3 L1 modules
8 L2 modules
8 L3 modules
16 L4 modules

POH

1	2	3	4	5	6	7	8	9	10	11	12	13	14
112C	212A	413	113C	423	213A	222B	432	114D	313	442	224B	323	332
112D	212B	414	113D	424	213B	222A	431	114C	314	441	224A	324	331
112A	211B	411	113B	421	214A	221B	434	114A	311	444	223B	321	334
112B	211A	412	113A	422	214B	221A	433	114B	312	443	223A	322	333
Bundle 1			Bundle 2			Bundle 3			Bundle 4			Bundle 5	

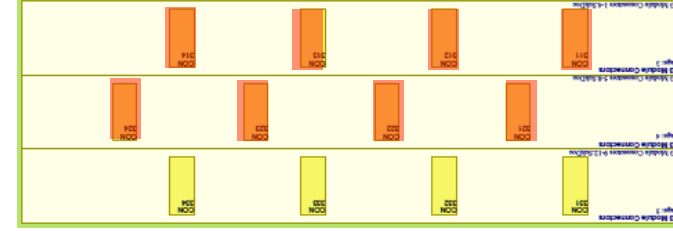
L12

Top View



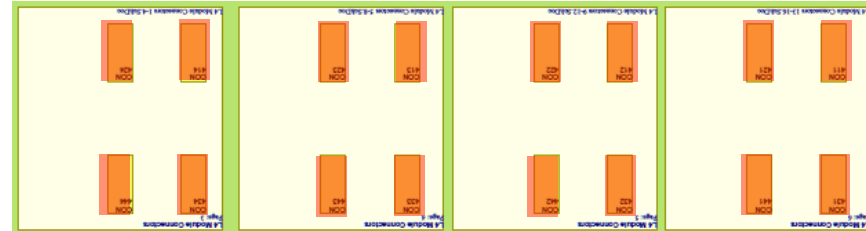
L3

Bottom View



L4

Bottom View



DCDC

12	11	10	9	8	7	6	5	4	3	2	1	0
331	321	311	222	211	441	431	421	411	114	113	112	
332	322	312	223	212	442	432	422	412				
333	323	313	224	213	443	433	423	413				
334	324	314			444	434	424	414				
A6C2	A5C2	A4C2	A3C2	A2C2	A1C2	A6C1	A5C1	A4C1	A3C1	A2C1	A1C1	A0C1

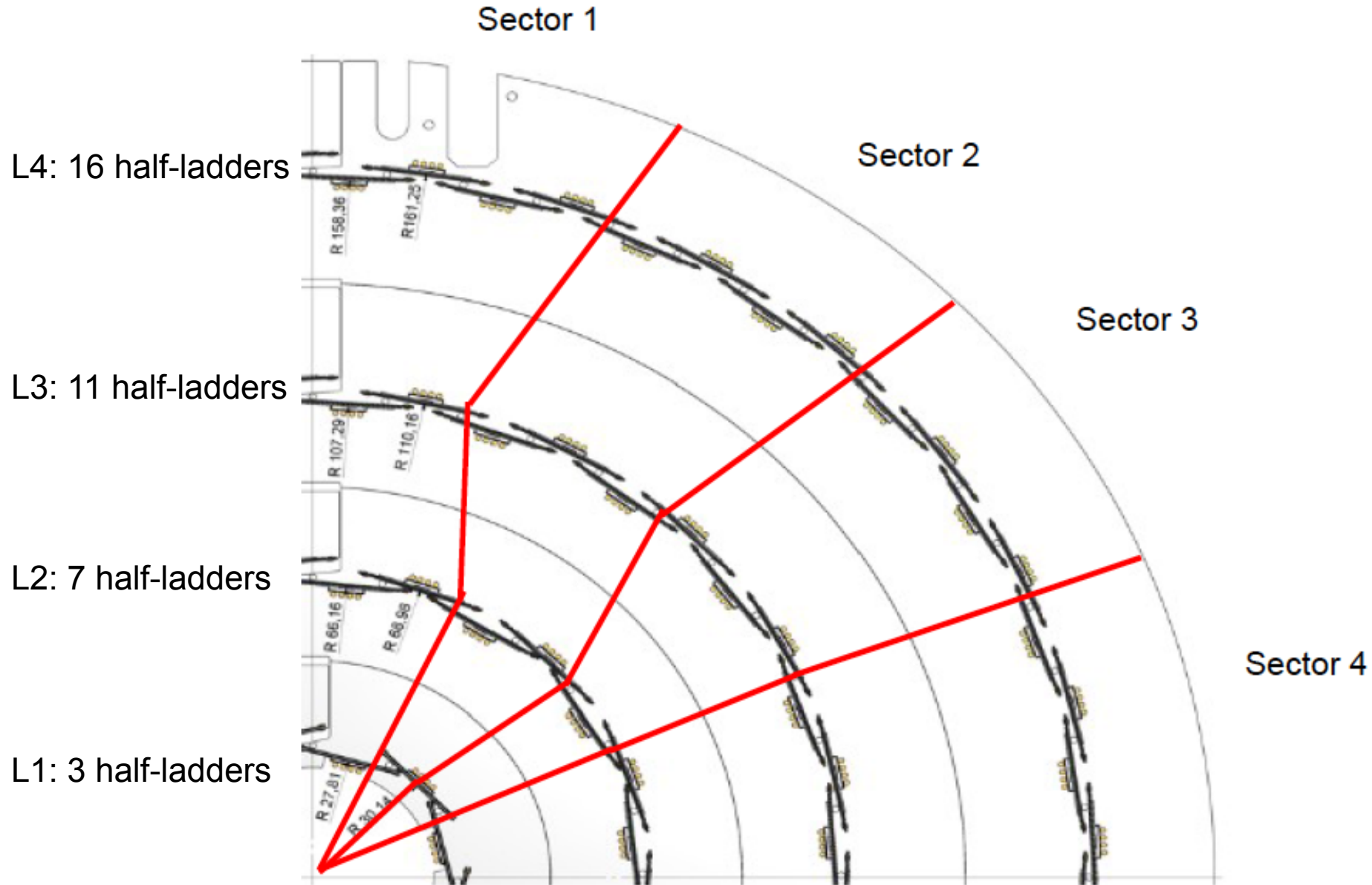
PP0 Side

Detector Side

High Voltage mapping

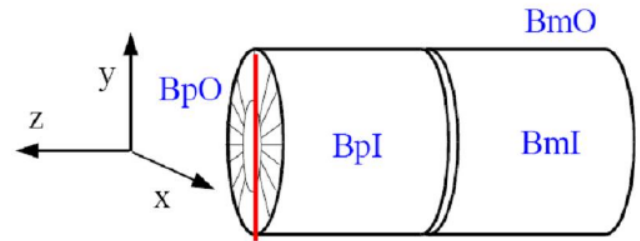
CON	HV
112	L1_HV1
113	L1_HV2
114	L1_HV3
211, 221	L2_HV1
212, 222	L2_HV2
213, 223	L2_HV3
214, 224	L2_HV4
311, 321, 331	L3_HV1
312, 322, 332	L3_HV2
313, 323, 333	L3_HV3
314, 324, 334	L3_HV4
414, 424, 434, 444	L4_HV4
413, 423, 433, 443	L4_HV3
412, 422, 432, 442	L4_HV2
411, 421, 431, 441	L4_HV1

Supply Tube half quadrant – 4 sectors



Each half-ladder has 4 modules

BPIX naming conventions



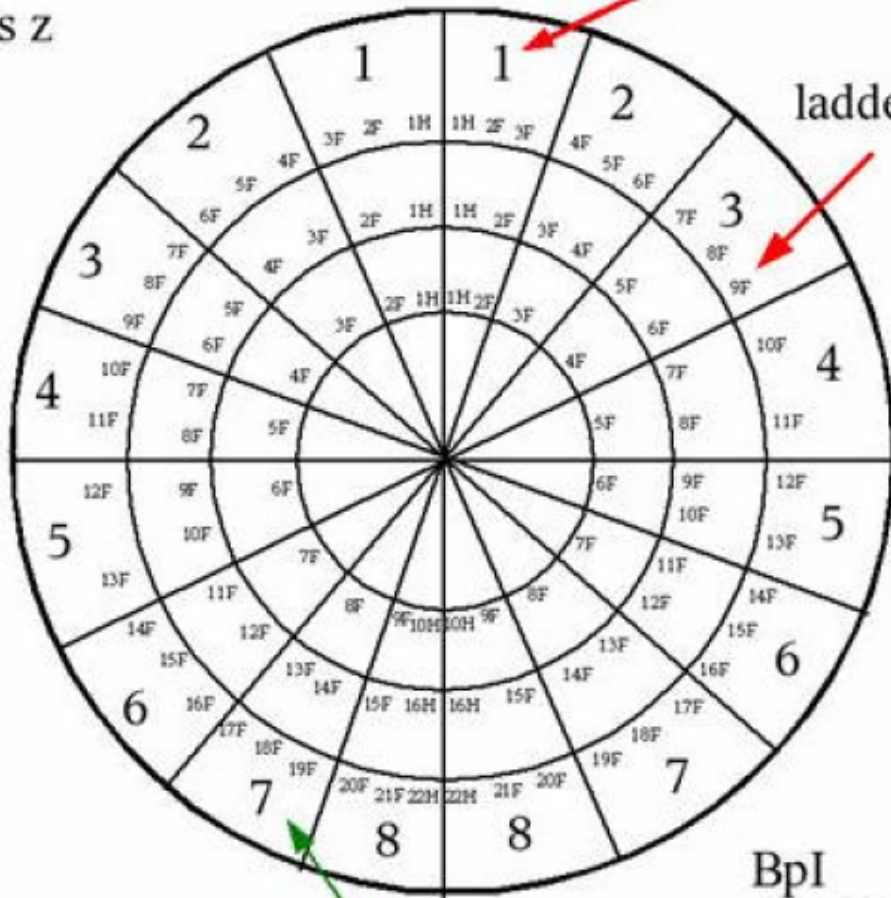
Looking in the
ip direction

x

p – plus z

sector number

ladder name



Module position 1,2,3,4,
where 1 is most central

Connector labeling:
eg. CON123

Layer Ladder Module Pos.

BpO
(OUTSIDE)

BpI
(INSIDE)

Sectors/slots

name of SECT