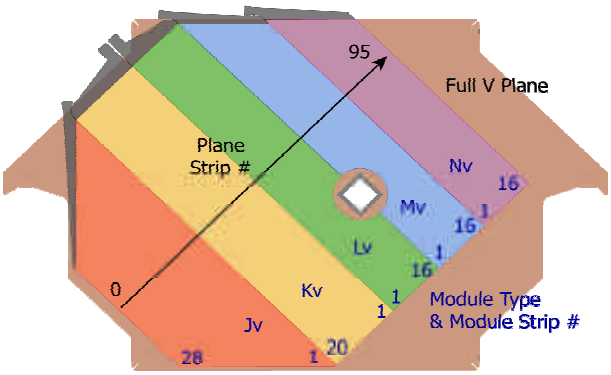
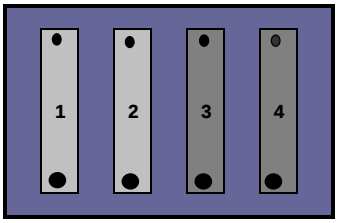
Type 2 Alner Box
Full V Plane - Calorimeter Section

Mappings between
- Module Strip Numbers as assigned on ANL module maps
- Fiber Cable pin-out at module end
- Fiber Cable pin-out at Alner Box end
- Box Fiber Number as assigned for internal threading
- Plane Strip Number as assigned in Offline software





Looking at the Fiber Cable side of the Alner Box
2 cables in, 3rd & 4th unused - dots show cable polarity

Jv Module

Module Connector	●	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 ●
Jv Module Strip #		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Box Connector # 1	●	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 ●
Box Fiber #		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**		
Plane Strip #		**27**	**26**	**25**	**24**	**23**	**22**	**21**	**20**	**19**	**18**	**17**	**16**	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**0**		

Kv Module

Module Connector	●	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 ●
Kv Module Strip #		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20										
Box Connector # 2	●	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 ●
Box Fiber #		**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**										
Plane Strip #		**47**	**46**	**45**	**44**	**43**	**42**	**41**	**40**	**39**	**38**	**37**	**36**	**35**	**34**	**33**	**32**	**31**	**30**	**29**	**28**										

Type 2 Alner Box
Full V Plane Calorimeter Section

Mappings between
- Pixel Number
- Box Fiber Number
- Plane Strip Number
- Four D37 Output Cables

Pixel Number

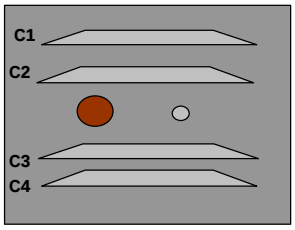
8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9
24	23	22	21	20	19	18	17
32	31	30	29	28	27	26	25
40	39	38	37	36	35	34	33
48	47	46	45	44	43	42	41
56	55	54	53	52	51	50	49
64	63	62	61	60	59	58	57

Box Fiber Number

28	15	2		40	27	14	1
4		42	29	16	3		41
44	31	18	5		43	30	17
20	7		45	32	19	6	
	47	34	21	8		46	33
36	23	10		48	35	22	9
12			37	24	11		
	39	26	13			38	25

Plane Strip Number

0	13	26		36	1	14	27
24		34	47	12	25		35
32	45	10	23		33	46	11
8	21		31	44	9	22	
	29	42	7	20		30	43
40	5	18		28	41	6	19
16			39	4	17		
	37	2	15			38	3



Schematic of back of Alner Box
Four D37, 1 HV 1 Lemo

Only the signal pin numbers are shown, top row, for each connector.
A "T" means the connector pin must be TERMINATED by the readout cable

Connector C1 Pin #	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
				T						T					T			
Pixel #	16	15	8	7	14	13	6	5	12	11	4	3	10	9	2	1		
Box Fiber #	4		28	15	42	29	2		16	3	40	27		41	14	1		
Plane Strip #	24		0	13	34	47	26		12	25	36	1		35	14	27		

Connector C2 Pin #	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
							T						T			T		
Pixel #	32	31	24	23	30	29	22	21	28	27	20	19	26	25	18	17		
Box Fiber #	20	7	44	31		45	18	5	32	19		43	6		30	17		
Plane Strip #	8	21	32	45		31	10	23	44	9		33	22		46	11		

Connector C3 Pin #	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
					T			T						T				
Pixel #	48	47	40	39	46	45	38	37	44	43	36	35	42	41	34	33		
Box Fiber #	36	23		47	10		34	21	48	35	8		22	9	46	33		
Plane Strip #	40	5		29	18		42	7	28	41	20		6	19	30	43		

Connector C4 Pin #	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
			T			T			T		T	T					T	T
Pixel #	64	63	56	55	62	61	54	53	60	59	52	51	58	57	50	49		
Box Fiber #		39	12		26	13		37			24	11	38	25				
Plane Strip #		37	16		2	15		39			4	17	38	3				

This Box uses a single FOUR-to-THREE connector cable.
It is a special cable with 4 connectors on the Box end, and 3 connectors on the Minder end.

This Box feeds 3 Minder boards