Hall A RHRS cabling map (latest updates in red)

RHRS Total Absorber (Shower)

Detector Position/ PMT labels	Online GUI labels	Upper patch panel Name & position (Delay lbine if other)	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	HV Slot-ch (rpi4)
TA-1	SH 0	CHARLIE D-1	TA(1-16)	1	17 - 32	3-0
TA-2	SH 1	CHARLIE D-2	TA(1-16)	2	17 - 33	3-1
TA-2	SH 2	CHARLIE D-3	TA(1-16)	3	17 - 34	3-2
TA-4	SH 3	CHARLIE D-4	TA(1-16)	4	17 - 35	3-3
TA-5	SH 4	CHARLIE D-5	TA(1-16)	5	17 - 36	3-4
TA-6	SH 5	CHARLIE D-6	TA(1-16)	6	17 - 37	3-5
TA-7	SH 6	CHARLIE D-7	TA(1-16)	7	17 - 38	3-6
TA-9	SH 7	CHARLIE D-8	TA(1-16)	8	17 - 39	3-7
TA-8	SH 8	CHARLIE D-9	TA(1-16)	9	17 - 40	3-8
TA-10	SH 9	CHARLIE D-10	TA(1-16)	10	17 - 41	3-9
TA-11	SH 10	CHARLIE D-11	TA(1-16)	11	17 - 42	3-10
TA-12	SH 11	CHARLIE D-12	TA(1-16)	12	17 - 43	3-11
TA-13	SH 12	CHARLIE D-13 (ALFRED A-7)	TA(1-16)	13	17 - 44	4-0
TA-14	SH 13	CHARLIE D-14	TA(1-16)	14	17 - 45	4-1
TA-15	SH 14	CHARLIE D-15	TA(1-16)	15	17 - 46	4-2
empty	***empty***	-	TA(1-16)	16	17 - 47	-
TA-17	SH 15	DEX A-1	TA(17-32)	1	18 - 0	4-3
TA-18	SH 16	DEX A-2	TA(17-32)	2	18 - 1	4-4
TA-19	SH 17	DEX A-3	TA(17-32)	3	18 - 2	4-5
TA-20	SH 18	DEX A-4	TA(17-32)	4	18 - 3	4-6
TA-21	SH 19	DEX A-5	TA(17-32)	5	18 - 4	4-7
TA-22	SH 20	DEX A-6	TA(17-32)	6	18 - 5	4-8
TA-23	SH 21	DEX A-7	TA(17-32)	7	18 - 6	4-9
TA-24	SH 22	DEX A-8	TA(17-32)	8	18 - 7	4-10
TA-25	SH 23	DEX A-9	TA(17-32)	9	18 - 8	4-11
TA-26	SH 24	DEX A-10	TA(17-32)	10	18 - 9	5-0
TA-27	SH 25	DEX A-11	TA(17-32)	11	18 - 10	5-1
TA-28	SH 26	DEX A-12	TA(17-32)	12	18 - 11	5-2
TA-29	SH 27	DEX A-13	TA(17-32)	13	18 - 12	5-3
TA-30	SH 28	DEX A-14	TA(17-32)	14	18 - 13	5-4
TA-31	SH 29	DEX A-15	TA(17-32)	15	18 - 14	5-5
empty	***empty***	DEX A-16	TA(17-32)	16	18 - 15	
TA-33	SH 30	DEX B-1	TA(33-48)	1	19 - 0	5-6
TA-34	SH 31	DEX B-2	TA(33-48)	2	19 - 1	5-7
TA-35	SH 32	DEX B-3	TA(33-48)	3	19 - 2	5-8

TA-36	SH 33	DEX B-4	TA(33-48)	4	19 - 3	5-9
TA-37	SH 34	DEX B-5	TA(33-48)	5	19 - 4	5-10
TA-38	SH 35	DEX B-5	TA(33-48)	6	19 - 5	5-11
TA-39	SH 36	DEX B-7	TA(33-48)	7	19 - 6	9-4
TA-40	SH 37	DEX B-8	TA(33-48)	8	19 - 7	6-1
TA-41	SH 38	DEX B-9	TA(33-48)	9	19 - 8	6-2
TA-42	SH 39	DEX B-10	TA(33-48)	10	19 - 9	6-3
TA-43	SH 40	DEX B-11	TA(33-48)	11	19 - 10	6-4
TA-44	SH 41	DEX B-12	TA(33-48)	12	19 - 11	6-5
TA-45	SH 42	DEX B-13	TA(33-48)	13	19 - 12	6-6
TA-46	SH 43	DEX B-14	TA(33-48)	14	19 - 13	6-7
TA-47	SH 44	DEX B-15	TA(33-48)	15	19 - 14	6-8
empty	***empty***	DEX B-16	TA(33-48)	16	19 - 15	
TA-49	SH 45	EUNICE A-1	TA(49-64)	1	16 - 0	6-9
TA-50	SH 46	EUNICE A-2	TA(49-64)	2	16 - 1	6-10
TA-51	SH 47	EUNICE A-3	TA(49-64)	3	16 - 2	6-11
TA-52	SH 48	EUNICE A-4	TA(49-64)	4	16 - 3	7-0
TA-53	SH 49	EUNICE A-5	TA(49-64)	5	16 - 4	7-1
TA-54	SH 50	EUNICE A-6	TA(49-64)	6	16 - 5	7-2
TA-55	SH 51	EUNICE A-7	TA(49-64)	7	16 - 6	7-3
TA-56	SH 52	EUNICE A-8	TA(49-64)	8	16 - 7	7-4
TA-57	SH 53	EUNICE A-9	TA(49-64)	9	16 - 8	7-5
TA-58	SH 54	EUNICE A-10	TA(49-64)	10	16 - 9	7-6
TA-59	SH 55	EUNICE A-11	TA(49-64)	11	16 - 10	7-7
TA-60	SH 56	EUNICE A-12	TA(49-64)	12	16 - 11	7-8
TA-61	SH 57	EUNICE A-13	TA(49-64)	13	16 - 12	7-9
TA-62	SH 58	EUNICE A-14	TA(49-64)	14	16 - 13	7-10
TA-63	SH 59	EUNICE A-15	TA(49-64)	15	16 - 14	7-11
empty	***empty***	-	TA(49-64)	16	16 - 15	
TA-65	SH 60	EUNICE A-16	TA(65-80)	1	17 - 16	8-0
TA-66	SH 61	EUNICE B-2 (ALFRED D-8)	TA(65-80)	2	17 - 17	8-1
TA-67	SH 62	EUNICE B-3	TA(65-80)	3	17 - 18	8-2
TA-68	SH 63	EUNICE B-4	TA(65-80)	4	17 - 19	8-3
TA-69	SH 64	EUNICE B-5	TA(65-80)	5	17 - 20	8-4
TA-70	SH 65	EUNICE B-6	TA(65-80)	6	17 - 21	8-5
TA-71	SH 66	EUNICE B-7	TA(65-80)	7	17 - 22	8-6
TA-72	SH 67	EUNICE B-8	TA(65-80)	8	17 - 23	8-7
TA-73	SH 68	EUNICE B-9	TA(65-80)	9	17 - 24	8-8
TA-74	SH 69	EUNICE B-10	TA(65-80)	10	17 - 25	8-9
TA-75	SH 70	EUNICE B-11	TA(65-80)	11	17 - 26	8-10
TA-76	SH 71	EUNICE B-12	TA(65-80)	12	17 - 27	8-11
TA-77	SH 72	EUNICE B-13	TA(65-80)	13	17 - 28	9-0
TA-78	SH 73	EUNICE B-14	TA(65-80)	14	17 - 29	9-1
TA-79	SH 74	EUNICE B-15	TA(65-80)	15	17 - 30	9-2

empty	***empty***	EUNICE B-16	TA(65-80)	16	17 - 31	

RHRS EPS (Preshower)

Detector position / PMT labels	Online GUI labels	Upper patch panel Name & position (Delay line if other)	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	HV Slot-ch (rpi4)
EPS-1R	PS 0	CHARLIE A-1 (ALFRED A-9)	EPS(1R-16R)	1	20 - 0	10-0
EPS-2R	PS 1	CHARLIE A-2 (ALFRED A-14)	EPS(1R-16R)	2	20 - 1	10-1
EPS-3R	PS 2	CHARLIE A-3 (ALFRED A-2)	EPS(1R-16R)	3	20 - 2	10-2
EPS-4R	PS 3	CHARLIE A-4 (ALFRED A-16)	EPS(1R-16R)	4	20 - 3	10-3
EPS-5R	PS 4	CHARLIE A-5 (ALFRED A-3)	EPS(1R-16R)	5	20 - 4	10-4
EPS-6R	PS 5	CHARLIE A-6 (ALFRED A-10)	EPS(1R-16R)	6	20 - 5	10-5
EPS-7R	PS 6	CHARLIE A-7	EPS(1R-16R)	7	20 - 6	10-6
EPS-8R	PS 7	CHARLIE A-8	EPS(1R-16R)	8	20 - 7	10-7
EPS-9R	PS 8	CHARLIE A-9 (ALFRED A-4)	EPS(1R-16R)	9	20 - 8	10-8
EPS-10R	PS 9	CHARLIE A-10	EPS(1R-16R)	10	20 - 9	10-9
EPS-11R	PS 10	CHARLIE D-16	EPS(1R-16R)	11	20 - 10	10-10
EPS-12R	PS 11	CHARLIE A-12	EPS(1R-16R)	12	20 - 11	10-11
EPS-13R	PS 12	CHARLIE A-13	EPS(1R-16R)	13	20 - 12	11-0
EPS-14R	PS 13	DEX A-16	EPS(1R-16R)	14	20 - 13	11-1
EPS-15R	PS 14	CHARLIE A-15	EPS(1R-16R)	15	20 - 14	11-2
EPS-16R	PS 15	CHARLIE A-16	EPS(1R-16R)	16	20 - 15	11-3
EPS-17R	PS 16	CHARLIE B-1 (ALFRED A-11)	EPS(17R-24R)	1	21 - 0	11- 4
EPS-18R	PS 17	CHARLIE B-2 (ALFRED A-5)	EPS(1L-8L)	2	21 - 1	**9-5**
EPS-19R	PS 18	CHARLIE B-3 (ALFRED D-10)	EPS(1L-8L)	3	21 - 2	11-6
EPS-20R	PS 19	CHARLIE B-4		4	21 - 3	11-7
EPS-21R	PS 20	CHARLIE B-5		5	21 - 4	11-8
EPS-22R	PS 21	CHARLIE B-6		6	21 - 5	11-9
EPS-23R	PS 22	CHARLIE B-7		7	21 - 6	11-10
EPS-24R	PS 23	CHARLIE B-8		8	21 - 7	11-11
EPS-1L	PS 24	CHARLIE B-9		9	21 - 8	12-0
EPS-2L	PS 25	CHARLIE B-10		10	21 - 9	12-1
EPS-3L	PS 26	CHARLIE B-11		11	21 - 10	12-2

		(ALFRED A-6)				
EPS-4L	PS 27	CHARLIE B-12		12	21 - 11	12-3
EPS-5L	PS 28	CHARLIE B-13		13	21 - 12	12-4
EPS-6L	PS 29	CHARLIE B-14		14	21 - 13	12-5
EPS-7L	PS 30	CHARLIE B-15		15	21 - 14	12-6
EPS-8L	PS 31	CHARLIE B-16		16	21 - 15	12-7
EPS-9L	PS 32	CHARLIE C-1	EPS(9L-24L)	1	16 - 32	12-8
EPS-10L	PS 33	CHARLIE C-2	EPS(9L-24L)	2	16 - 33	12-9
EPS-11L	PS 34	CHARLIE C-3	EPS(9L-24L)	3	16 - 34	12-10
EPS-12L	PS 35	CHARLIE C-4	EPS(9L-24L)	4	16 - 35	12-11
EPS-13L	PS 36	CHARLIE C-5	EPS(9L-24L)	5	16 - 36	13-0
EPS-14L	PS 37	CHARLIE C-6	EPS(9L-24L)	6	16 - 37	13-1
EPS-15L	PS 38	CHARLIE C-7	EPS(9L-24L)	7	16 - 38	13-2
EPS-16L	PS 39	CHARLIE C-8	EPS(9L-24L)	8	16 - 39	13-3
EPS-17L	PS 40	CHARLIE C-9	EPS(9L-24L)	9	16 - 40	13-4
EPS-18L	PS 41	CHARLIE C-10	EPS(9L-24L)	10	16 - 41	13-5
EPS-19L	PS 42	CHARLIE C-11	EPS(9L-24L)	11	16 - 42	13-6
EPS-20L	PS 43	CHARLIE C-12	EPS(9L-24L)	12	16 - 43	13-7
EPS-21L	PS 44	CHARLIE C-13 (ALFRED A-12)	EPS(9L-24L)	13	16 - 44	13-8
EPS-22L	PS 45	CHARLIE C-14	EPS(9L-24L)	14	16 - 45	13-9
EPS-23L	PS 46	CHARLIE C-15 (ALFRED A-13)	EPS(9L-24L)	15	16 - 46	13-10
EPS-24L	PS 47	CHARLIE C-16	EPS(9L-24L)	16	16 - 47	13-11

RHRS S2m and S1

Detector position / PMT labels	*Upper patch panel Name & position (Delay line if other)*	*Flat Cable name*	Flat cable Wire No	ADC FB BOT Slot-ch.	TDC Fast bus Slot-ch.	HV Slot-ch (rpi4)
S2m-1L	*ALFRED A-1*	*S2m(1L-16L)*	1	18 - 32	11-0	0-0
S2m-2L	*ALFRED A-2*	*S2m(1L-16L)*	2	18 - 33	11-1	0-1
S2m-3L	*ALFRED A-3*	*S2m(1L-16L)*	3	18 - 34	11-2	0-2
S2m-4L	*ALFRED A-4*	*S2m(1L-16L)*	4	18 - 35	11-3	0-3
S2m-5L	*ALFRED A-5*	*S2m(1L-16L)*	5	18 - 36	11-4	0-4
S2m-6L	*ALFRED A-6*	*S2m(1L-16L)*	6	18 - 37	11-5	0-5
S2m-7L	*ALFRED A-7*	*S2m(1L-16L)*	7	18 - 38	11-6	0-6
S2m-8L	*ALFRED A-8*	*S2m(1L-16L)*	8	18 - 39	11-7	0-7
S2m-9L	*ALFRED A-9*	*S2m(1L-16L)*	9	18 - 40	11-8	0-8
S2m-10L	*ALFRED A-10*	*S2m(1L-16L)*	10	18 - 41	11-9	0-9
S2m-11L	*ALFRED A-11*	*S2m(1L-16L)*	11	18 - 42	11-10	0-10
S2m-12L	*ALFRED A-12*	*S2m(1L-16L)*	12	18 - 43	11-11	0-11
S2m-13L	*ALFRED A-13*	*S2m(1L-16L)*	13	18 - 44	11-12	2-0
S2m-14L	*ALFRED A-14*	*S2m(1L-16L)*	14	18 - 45	11-13	2-1
S2m-15L	*ALFRED A-15*	*S2m(1L-16L)*	15	18 - 46	11-14	2-2

S2m-16L	*ALFRED A-16*	*S2m(1L-16L)*	16	18 - 47	11-15	2-3
S2m-1R	*ALFRED B-1*	*S2m(1R-16R)*	1	19 - 32	11-16	1-0
S2m-2R	*ALFRED B-2*	S2m(1R-16R)	2	19 - 33	11-17	1-1
S2m-3R	*ALFRED B-3*	S2m(1R-16R)	3	19 - 34	11-18	1-2
S2m-4R	*ALFRED B-4*	S2m(1R-16R)	4	19 - 35	11-19	1-3
S2m-5R	*ALFRED B-5*	S2m(1R-16R)	5	19 - 36	11-20	1-4
S2m-6R	*ALFRED B-6*	S2m(1R-16R)	6	19 - 37	11-21	1-5
S2m-7R	*ALFRED B-7*	S2m(1R-16R)	7	19 - 38	11-22	1-6
S2m-8R	*ALFRED B-8*	S2m(1R-16R)	8	19 - 39	11-23	1-7
S2m-9R	*ALFRED B-9*	S2m(1R-16R)	9	19 - 40	11-24	1-8
S2m-10R	*ALFRED B-10*	S2m(1R-16R)	10	19 - 41	11-25	1-9
S2m-11R	*ALFRED B-11*	S2m(1R-16R)	11	19 - 42	11-26	1-10
S2m-12R	*ALFRED B-12*	S2m(1R-16R)	12	19 - 43	11-27	1-11
S2m-13R	*ALFRED B-13*	S2m(1R-16R)	13	19 - 44	11-28	2-4
S2m-14R	*ALFRED B-14*	S2m(1R-16R)	14	19 - 45	11-29	2-5
S2m-15R	*ALFRED B-15*	S2m(1R-16R)	15	19 - 46	11-30	2-6
S2m-16R	*ALFRED B-16*	S2m(1R-16R)	16	19 - 47	11-31	2-7
S1-1L	*ALFRED D-1*	*S1(1-6)L,R*	*1*	*21 - 32*		*9-0*
S1-2L	*ALFRED D-2*	*S1(1-6)L,R*	*2*	*21 - 33*		*9-1*
S1-3L	*ALFRED D-3*	*S1(1-6)L,R*	*3*	*21 - 34*		*9-2*
S1-4L	*ALFRED D-4*	*S1(1-6)L,R*	*4*	*21 - 35*		*9-3*
S1-5L	*ALFRED D-5*	*S1(1-6)L,R*	*5*	*21 - 36*		*9-4*
S1-6L	*ALFRED D-6*	*S1(1-6)L,R*	*6*	*21 - 37*		*9-5*
S1-1R	*ALFRED D-7*	*S1(1-6)L,R*	*7*	*21 - 38*		*9-6*
S1-2R	*ALFRED D-8*	*S1(1-6)L,R*	*8*	*21 - 39*		*9-7*
S1-3R	*ALFRED D-9*	*S1(1-6)L,R*	*9*	*21 - 40*		*9-8*
S1-4R	*ALFRED D-10*	*S1(1-6)L,R*	*10*	*21 - 41*		*9-9*
S1-5R	*ALFRED D-11*	*S1(1-6)L,R*	*11*	*21 - 42*		*9-10*
S1-6R	*ALFRED D-12*	*S1(1-6)L,R*	*12*	*21 - 43*		*9-11*

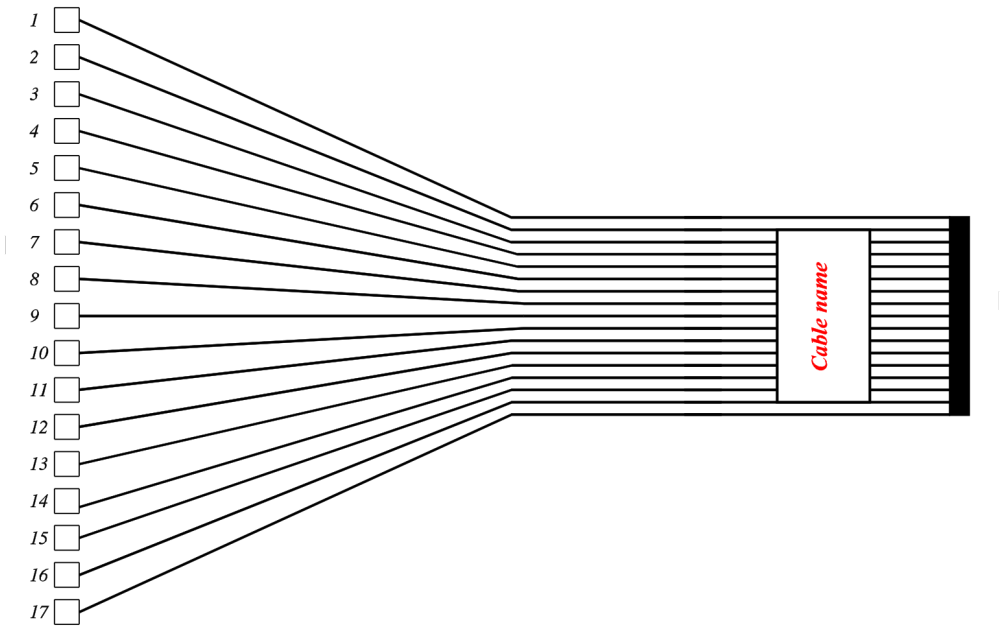
RHRS Gas Cerenkov

Detector position	Patch panel Name&posit.	Flat Cable name	Flat cable Wire No	ADC FB BOT Slot-ch.	TDC Fast bus Slot –ch.	HV Slot-ch. (rpi7)
Gas Cer-1	ALFRED C-1	Gas,Sum&S0	1	20 - 32	11-32	14-0
Gas Cer-2	ALFRED C-2	Gas,Sum&S0	2	20 - 33	11-33	14-1
Gas Cer-3	ALFRED C-3	Gas,Sum&S0	3	20 - 34	11-34	14-2
Gas Cer-4	ALFRED C-4	Gas,Sum&S0	4	20 - 35	11-35	14-3
Gas Cer-5	ALFRED C-5	Gas,Sum&S0	5	20 - 36	11-36	14-4
Gas Cer-6	ALFRED C-6	Gas,Sum&S0	6	20 - 37	11-37	14-5

Gas Cer-7	ALFRED C-7	Gas,Sum&S0	7	20 - 38	11-38	14-6
Gas Cer-8	ALFRED C-8	Gas,Sum&S0	8	20 - 39	11-39	14-7
Gas Cer-9	ALFRED C-9	Gas,Sum&S0	9	20 - 40	11-40	14-8
Gas Cer-10	ALFRED C-10	Gas,Sum&S0	10	20 - 41	11-41	14-9
Gas Cer-Sum	ALFRED C-11	Gas,Sum&S0	11	20 - 42	11-42	
S0A-Bottom	ALFRED C-12	Gas,Sum&S0	12	20 - 43	11-43	2-8
S0B-Top	ALFRED C-13	Gas,Sum&S0	13	20 - 44	11-44	2-9
VDC (top)						rpi7: 12-3.0
VDC (bottom)						rpi7: 12-3.2

Other

Detector position	Patch panel Name&posit.	Flat Cable name	ADC FB BOT Slot-ch.	TDC Fast bus Slot –ch.
Triggers		TRIGGERS		11 - (42-63)
SPARE 1		SPARE 1		16 - (0-15) MID
SPARE 2		SPARE 2		16 - (16-31) MID



Flat coaxial cable: One end 17 BNC connectors other end 34 pin connector.

PS: Line number 17-in not used

Albert Shahinyan
Sep 26, 2013

Update: Tyler Hague
July 10, 2017
Update: Florian Hauenstein
January 13,2018