ECI Cap-Synamps I Cable Description

Updated 1-5-2005
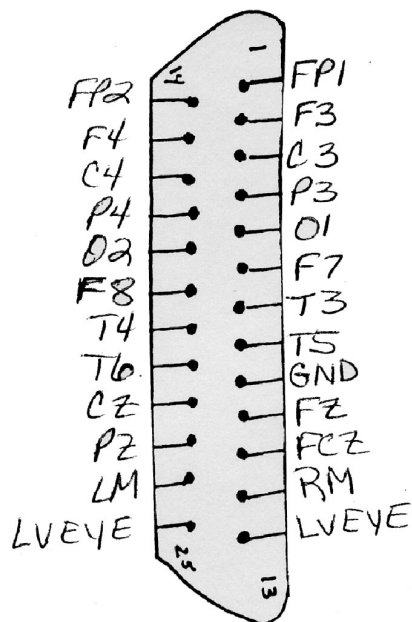
Cap Site	Cap 25-pin	Cap wire Color	25-pin Adapter Pin + Color		80-pin (NS) Pin + Color + Group			NS physical Channel
FP1	1	Brown	1	Brown	39	White	Green	2
F3	2	Red	2	Orange	38	SL	Green	3
C3	3	Orange	3	Green	37	Violet	Green	4
P3	4	Yellow	4	Violet	36	Blue	Green	5
O1	5	Green	5	White	35	Green	Green	6
F7	6	Blue	6	Brown	34	Yellow	Green	7
T3	7	Violet	7	Orange	33	Orange	Green	8
T5	8	Grey	8	Green	32	Red	Green	9
GND	9	White	9	Violet	10	Black	Black	GND
FZ	10	Black	10	White	31	Brown	Green	10
FCZ	11	Grey	11	Brown	30	Black	Red	11
RM	12	Violet	12	Orange	29	White	Red	12
LV EYE	13	Blue	13	Green	1	Brown	Black	-32
FP2	14	Brown	14	Red	27	Violet	Red	14
F4	15	Red	15	Yellow	26	Blue	Red	15
C4	16	Orange	16	Blue	25	Green	Red	16
P4	17	Yellow	17	SL	24	Yellow	Red	17
O2	18	Green	18	Black	23	Orange	Red	18
F8	19	Blue	19	Red	22	Red	Red	19
T4	20	Violet	20	Yellow	21	Brown	Red	20
T6	21	Grey	21	Blue	20	Black	CL	21
CZ	22	White	22	SL	19	White	CL	22
PZ	23	Black	23	Black	18	SL	CL	23
LM	24	Grey	24	Red	11	Brown	CL	REF
LV EYE	25	Violet	25	Yellow	2	Red	Black	+32

ECI Cap-Synamps 2 Cable Description

Updated 1-5-2005

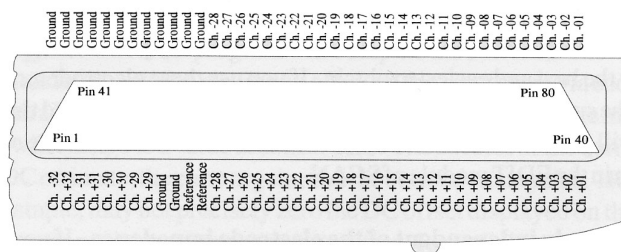| Cap Site	Cap 25-pin	Cap wire Color	25-pin Adapter Pin + Color		80-pin (NS) Pin + Color + group			NS physical Channel
FP1	1	Brown	1	Brown	01	Brown	Black	01
F3	2	Red	2	Orange	02	Red	Black	09
C3	3	Orange	3	Green	03	Orange	Black	33
P3	4	Yellow	4	Violet	04	Yellow	Black	41
O1	5	Green	5	White	08	Slate	Black	26
F7	6	Blue	6	Brown	09	White	Black	50
T3	7	Violet	7	Orange	10	Black	Black	58
T5	8	Grey	8	Green	11	Brown	Clear	19
GND	9	White	9	Violet	05	Green	Black	Ground
FZ	10	Black	10	White	12	Red	Clear	27
FCZ	11	Grey	11	Brown	13	Orange	Clear	51
RM	12	Violet	12	Orange	07	Violet	Black	18
LV EYE	13	Blue	13	Green	29	White	Red	Bipolar +4
FP2	14	Brown	14	Red	14	Yellow	Clear	59
F4	15	Red	15	Yellow	15	Green	Clear	04
C4	16	Orange	16	Blue	16	Blue	Clear	12
P4	17	Yellow	17	SL	17	Violet	Clear	36
O2	18	Green	18	Black	18	Slate	Clear	44
F8	19	Blue	19	Red	21	Brown	Red	21
T4	20	Violet	20	Yellow	22	Red	Red	29
T6	21	Grey	21	Blue	23	Orange	Red	53
CZ	22	White	22	SL	24	Yellow	Red	61
PZ	23	Black	23	Black	25	Green	Red	06
LM	24	Grey	24	Red	06	Blue	Black	REF
LV EYE	25	Violet	25	Yellow	30	Black	Red	Bipolar -4

The Cap Connector

Located on the side of the headbox is an 80 pin connector that can be used to connect to predetermined electrode arrays. Shown below are the pin-outs for this connector.

SynAmps Headbox
Cap Connector Pin-out

Note:
For channels 1 to 28 if a channel is set to a mono-polar configuration (default), then the corresponding negative input pin is grounded at the cap connector. This is only on the connector, the actual input is tied to reference internally.

Synamps 2 Connector Pinout

Pin	Signal	Pin	Signal	Pin	Signal
01	Channel 01 *Fe1*	27	Channel 38	53	Bipolar +1
02	Channel 09 *F3*	28	Channel 46	54	Bipolar --1
03	Channel 33 *C3*	29	Bipolar +4	55	Channel 20
04	Channel 41 *P3*	30	Bipolar --4	56	Channel 28
05	Patient Ground *GRD*	31	Channel 23	57	Channel 52
06	Reference *Lm*	32	Channel 31	58	Channel 60
07	Channel 18 *Rm*	33	Channel 55	59	Channel 05
08	Channel 26 *O1*	34	Channel 63	60	Channel 13
09	Channel 50 *F7*	35	Channel 24	61	Channel 37
10	Channel 58 *T3*	36	Channel 32	62	Channel 45
11	Channel 19 *T5*	37	Channel 56	63	Bipolar +3
12	Channel 27 *Fz*	38	Channel 64	64	Bipolar --3
13	Channel 51 *PCz*	39	Spare	65	Channel 22
14	Channel 59 *Fpz*	40	Spare	66	Channel 30
15	Channel 04 *F4*	41	Channel 17	67	Channel 54
16	Channel 12 *C4*	42	Channel 25	68	Channel 62
17	Channel 36 *P4*	43	Channel 49	69	Channel 07
18	Channel 44 *O2*	44	Channel 57	70	Channel 15
19	Bipolar +2 *LV Eye*	45	Channel 02	71	Channel 39
20	Bipolar --2 *LV Eye*	46	Channel 10	72	Channel 47
21	Channel 21 *F8*	47	Channel 34	73	Channel 08
22	Channel 29 *T4*	48	Channel 42	74	Channel 16
23	Channel 53 *T6*	49	Channel 03	75	Channel 40
24	Channel 61 *Cz*	50	Channel 11	76	Channel 48
25	Channel 06 *Pz*	51	Channel 35	77	Spare
26	Channel 14	52	Channel 43	78	Spare
				79	Spare
				80	Spare