

## DB 9 PINOUT

**PIN #    COLOR CODE**

1	WHITE/BROWN
2	BLUE
3	WHITE/ORANGE
4	WHITE/GREEN
5	BROWN
6	GREEN
7	WHITE/BLUE
8	ORANGE

## RJ 45

**HOLD CONNECTOR WITH THE CLIP DOWN AND OPENING FACING LEFT**

**PIN #    COLOR CODE**

1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

## **BTS ROUTER DATA**

### **DB-9**

PIN                      COLOR

1		WHITE/BROWN
2		WHITE/BLUE
3		WHITE /ORANGE
4		GREEN
5		N/C
6		WHITE/GREEN
7		BLUE
8		ORANGE
9		BROWN

### **RJ-45**

PIN                      COLOR

1		WHITE/BROWN
2		WHITE/GREEN
3		WHITE/BLUE
4		BLUE
5		WHITE/ORANGE
6		ORANGE
7		GREEN
8		BROWN

### **5 PIN XLR**

PIN                      COLOR

1		BROWN AND WHITE/BROWN
2		WHITE/ORANGE
3		ORANGE
4		BLUE
5		WHITE/BLUE

# WOHLER PINOUTS

BOTH PINOUTS ARE FOR A 25 PIN MALE CONNECTOR

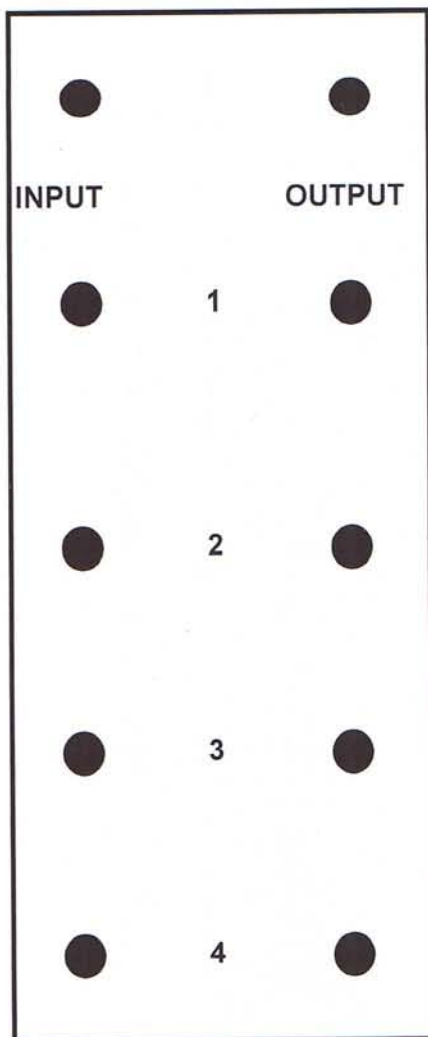
(WOHLER HAS CHASSIS MOUNT FEMALE)

**SUM 6**      **PIN #**      **ABCD SELECT**

I/P 1	HIGH	1	I/P 1 LEFT	HIGH
I/P 1	LOW	2	I/P 1 LEFT	LOW
I/P 2	HIGH	3	I/P 2 LEFT	HIGH
I/P 2	LOW	4	I/P 2 LEFT	LOW
I/P 3	HIGH	5	I/P 3 LEFT	HIGH
I/P 3	LOW	6	I/P 3 LEFT	LOW
N/C	N/C	7		N/C
I/P 4	HIGH	8	I/P 1 RIGHT	HIGH
I/P 4	LOW	9	I/P 1 RIGHT	LOW
I/P 5	HIGH	10	I/P 2 RIGHT	HIGH
I/P 5	LOW	11	I/P 2 RIGHT	LOW
I/P 6	HIGH	12	I/P 3 RIGHT	HIGH
I/P 6	LOW	13	I/P 3 RIGHT	LOW
		14	I/P 4 LEFT	HIGH
		15	I/P 4 LEFT	LOW
		16		
		17		
		18		
		19		
		20		
		21		
		22		
		23		
		24	I/P 4 RIGHT	HIGH
		25	I/P 4 RIGHT	LOW

# LEITCH FRAME - COBALT CARD LAYOUT

## BACKPLANE LAYOUT - REAR VIEW



# ALPHA / TALLY PINOUTS

## 4- PIN XLR

1	WHITE/ORANGE
2	BLUE
3	WHITE/BLUE
4	ORANGE

## 4-PIN MINI MOLEX

1	WHITE/ORANGE
2	BLUE
3	WHITE/BLUE
4	ORANGE

## RJ-11

1	WHITE/ORANGE
2	BLUE
3	WHITE/BLUE
4	ORANGE

## ALPHA SYSTEM

TD CONTROL TO TWOTW SYSTEM

TALLY MICRO TO ALPHA FRAME #1 (MALE)

ALPHA FRAME #1 (FEMALE) TO ALPHA FRAME #2 (MALE)

ALPHA FRAME #2 (FEMALE) TO ALPHA FRAME #3 (MALE)

ALPHA FRAME #3 (FEMALE) TO ALPHA FRAME #4 (MALE)

## TALLY SYSTEM

PC CONFIG TO MOXA SYSTEM

TBUS LOOP #1

TBUS LOOP #2

ALPHA SYSTEM SERIAL CONTROL

## 3- PIN XLR TALLY

1	YELLOW	SHIELD
2	RED	RED TALLY
3	BLACK	GREEN TALLY

## ADAM PANEL PINOUTS

### DB-9 - 3PR CAT 5

KEYPANEL FUNC	PIN #	COLOR CODE
DATA +	1	GREEN
DATA -	2	WH/GREEN
INPUT GND	3	N/C
OUTPUT +	4	BLUE
OUTPUT -	5	WH/BLUE
DATA GND	6	N/C
INPUT -	7	ORANGE
INPUT +	8	WH/ORANGE
OUTPUT GND	9	

### DB-9 - 8777 CABLE

KEYPANEL FUNC	PIN #	COLOR CODE
DATA +	1	RED
DATA -	2	BLACK
INPUT GND	3	GND
OUTPUT +	4	WHITE
OUTPUT -	5	BLACK
DATA GND	6	GND
INPUT -	7	BLACK
INPUT +	8	GREEN
OUTPUT GND	9	GND

### RJ-11 - 3PR CAT 5

CONNECTOR WITH CLIP DOWN AND OPENING FACING LEFT

KEYPANEL FUNC	PIN #	COLOR CODE
DATA -	1	WH/GREEN
INPUT +	2	WH/ORANGE
OUTPUT +	3	BLUE
OUTPUT -	4	WH/BLUE
INPUT -	5	ORANGE
DATA +	6	GREEN

PHONE CODE

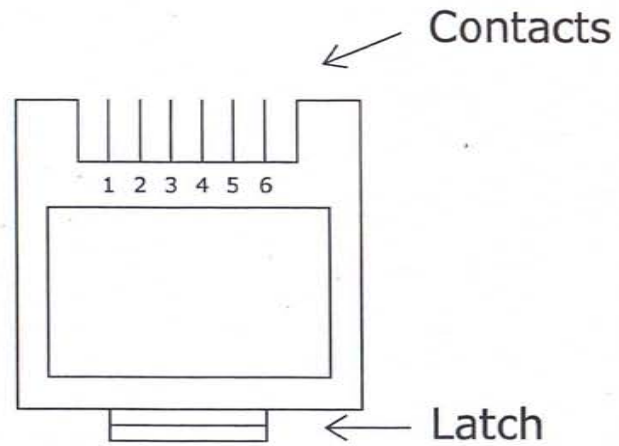
RJ-11 - HARD COPPER

CONNECTOR WITH CLIP DOWN AND OPENING FACING LEFT

PIN #    COLOR CODE

1	WH/GREEN
2	WH/ORANGE
3	BLUE
4	WH/BLUE
5	ORANGE
6	GREEN





**RJ-11 Modular Plug**  
 ( View from cable entrance )

Pin #	Telco Code	Twisted Pair
1	White	White / Green
2	Black	White / Orange
3	Red	Blue / White
4	Green	White / Blue
5	Yellow	Orange / White
6	Blue	Green / White



**Color Code Chart No. 1**

Cond.	Color
1st	Black
2nd	White
3rd	Red
4th	Green
5th	Brown
6th	Blue
7th	Orange
8th	Yellow
9th	Purple
10th	Gray
11th	Pink
12th	Tan

18 Gage conductors in cables 8446 through 8449 are Black and White.

**Color Code Chart No. 2 and 2R** (ICEA—Insulated Cable Engineers Association Standard) 2R—These cables feature a ring band striping. 2—These cables feature a spiral stripe.

Cond.	Color	Cond.	Color	Cond.	Color	Cond.	Color	Cond.	Color
1st	Black	14th	Green/White	27th	Blue/Black/White	40th	Red/White/Green		
2nd	White	15th	Blue/White	28th	Black/Red/Green	41st	Green/White/Blue		
3rd	Red	16th	Black/Red	29th	White/Red/Green	42nd	Orange/Red/Green		
4th	Green	17th	White/Red	30th	Red/Black/Green	43rd	Blue/Red/Green		
5th	Orange	18th	Orange/Red	31st	Green/Black/Orange	44th	Black/White/Blue		
6th	Blue	19th	Blue/Red	32nd	Orange/Black/Green	45th	White/Black/Blue		
7th	White/Black	20th	Red/Green	33rd	Blue/White/Orange	46th	Red/White/Blue		
8th	Red/Black	21st	Orange/Green	34th	Black/White/Orange	47th	Green/Orange/Red		
9th	Green/Black	22nd	Black/White/Red	35th	White/Red/Orange	48th	Orange/Red/Blue		
10th	Orange/Black	23rd	White/Black/Red	36th	Orange/White/Blue	49th	Blue/Orange/Red		
11th	Blue/Black	24th	Red/Black/White	37th	White/Red/Blue	50th	Black/Orange/Red		
12th	Black/White	25th	Green/Black/White	38th	Black/White/Green				
13th	Red/White	26th	Orange/Black/White	39th	White/Black/Green				

**Color Code Chart No. 3 for Paired Cables** (Belden Standard)

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black & Red	11	Red & Yellow	21	White & Brown	31	Purple & White
2	Black & White	12	Red & Brown	22	White & Orange	32	Purple & Dark Green
3	Black & Green	13	Red & Orange	23	Blue & Yellow	33	Purple & Light Blue
4	Black & Blue	14	Green & White	24	Blue & Brown	34	Purple & Yellow
5	Black & Yellow	15	Green & Blue	25	Blue & Orange	35	Purple & Brown
6	Black & Brown	16	Green & Yellow	26	Brown & Yellow	36	Purple & Black
7	Black & Orange	17	Green & Brown	27	Brown & Orange	37	Gray & White
8	Red & White	18	Green & Orange	28	Orange & Yellow		
9	Red & Green	19	White & Blue	29	Purple & Orange		
10	Red & Blue	20	White & Yellow	30	Purple & Red		

**Color Code Chart No. 4 for Paired Cables**

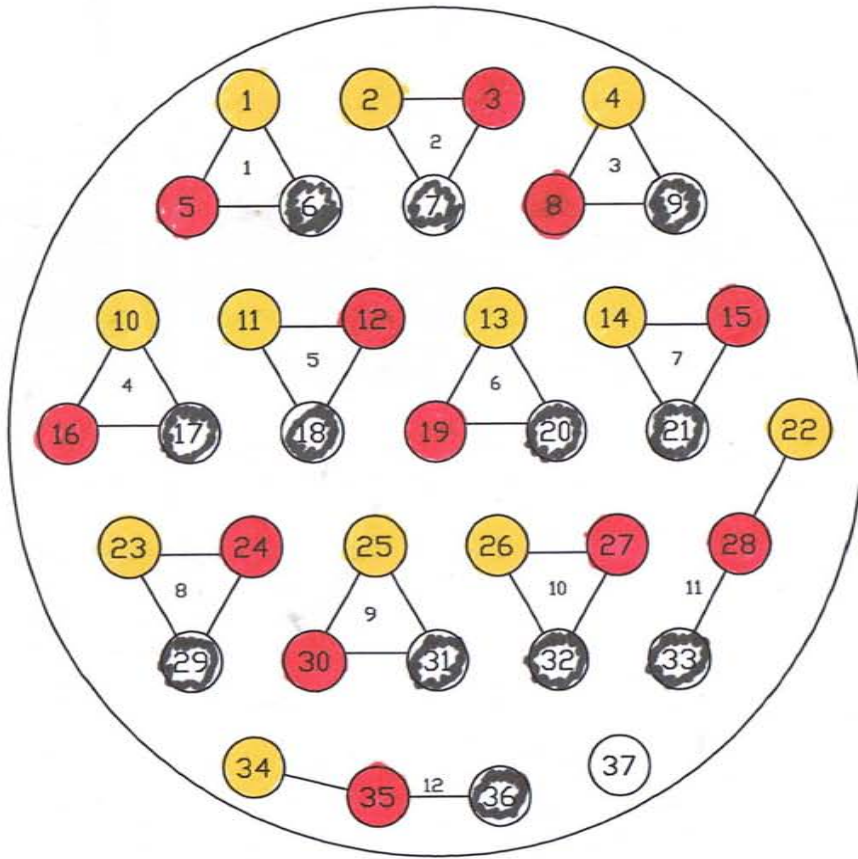
Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1st	White & Blue	6th	Red & Blue	11th	Black & Blue	16th	Yellow & Blue	21st	Violet & Blue
2nd	White & Orange	7th	Red & Orange	12th	Black & Orange	17th	Yellow & Orange	22nd	Violet & Orange
3rd	White & Green	8th	Red & Green	13th	Black & Green	18th	Yellow & Green	23rd	Violet & Green
4th	White & Brown	9th	Red & Brown	14th	Black & Brown	19th	Yellow & Brown	24th	Violet & Brown
5th	White & Slate	10th	Red & Slate	15th	Black & Slate	20th	Yellow & Slate	25th	Violet & Slate

**Color Code Chart No. 5 for Paired Cables** (Western Electric Standard)

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White / Blue Stripe	6	Red / Blue Stripe	11	Black / Blue Stripe	16	Yellow / Blue Stripe	21	Purple / Blue Stripe
2	Blue / White Stripe	7	Blue / Red Stripe	12	Blue / Black Stripe	17	Blue / Yellow Stripe	22	Blue / Purple Stripe
3	White / Orange Stripe	8	Red / Orange Stripe	13	Black / Orange Stripe	18	Yellow / Orange Stripe	23	Purple / Orange Stripe
4	Orange / White Stripe	9	Orange / Red Stripe	14	Orange / Black Stripe	19	Orange / Yellow Stripe	24	Orange / Purple Stripe
5	White / Green Stripe	10	Red / Green Stripe	15	Black / Green Stripe	20	Yellow / Green Stripe	25	Purple / Green Stripe
	Green / White Stripe		Green / Red Stripe		Green / Black Stripe		Green / Yellow Stripe		Green / Purple Stripe
	White / Brown Stripe		Red / Brown Stripe		Black / Brown Stripe		Yellow / Brown Stripe		Purple / Purple Stripe
	Brown / White Stripe		Brown / Red Stripe		Brown / Black Stripe		Brown / Yellow Stripe		Purple / Brown Stripe
	White / Gray Stripe		Red / Gray Stripe		Black / Gray Stripe		Yellow / Gray Stripe		Brown / Purple Stripe
	Gray / White Stripe		Gray / Red Stripe		Gray / Black Stripe		Gray / Yellow Stripe		Purple / Gray Stripe
									Gray / Purple Stripe

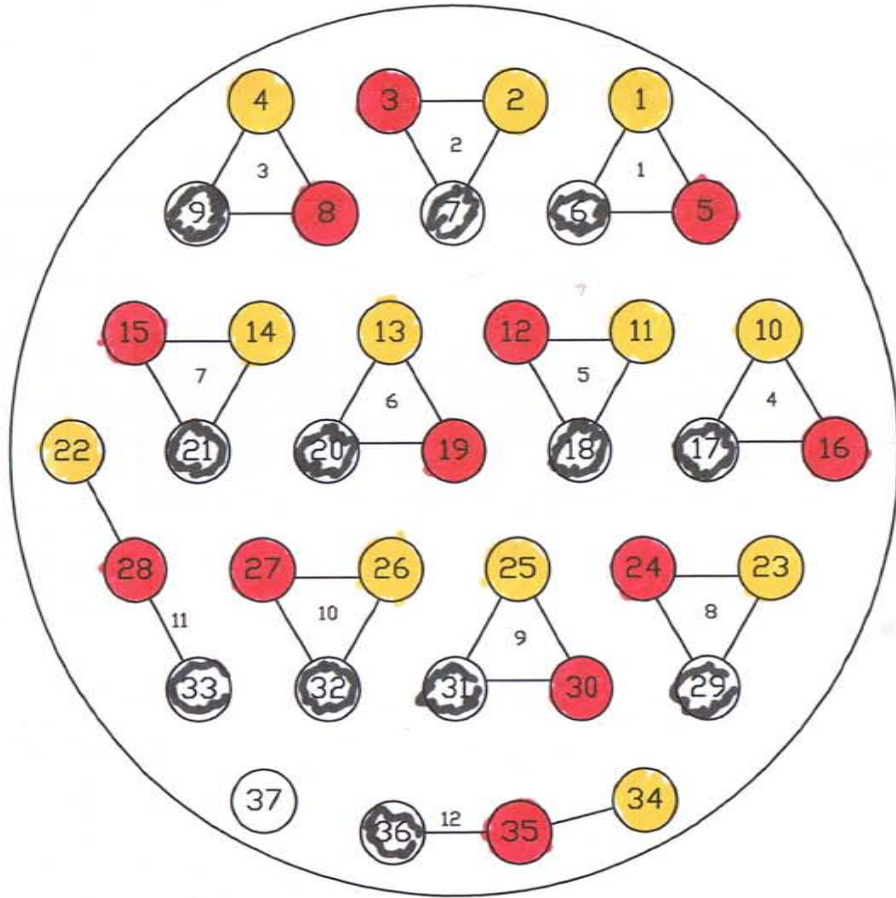


## MALE DT-12 PINOUT



PAIR	GND	HI	LOW
1	1	5 RED	6 BLACK
2	2	3 WHITE	7 BLACK
3	4	8 GREEN	9 BLACK
4	10	16 BLUE	17 BLACK
5	11	12 YELLOW	18 BLACK
6	13	19 BROWN	20 BLACK
7	14	15 ORNG	21 BLACK
8	23	24 WHITE	29 RED
9	25	30 GREEN	31 RED
10	26	27 BLUE	32 RED
11	22	28 YELLOW	33 RED
12	34	35 BROWN	36 RED

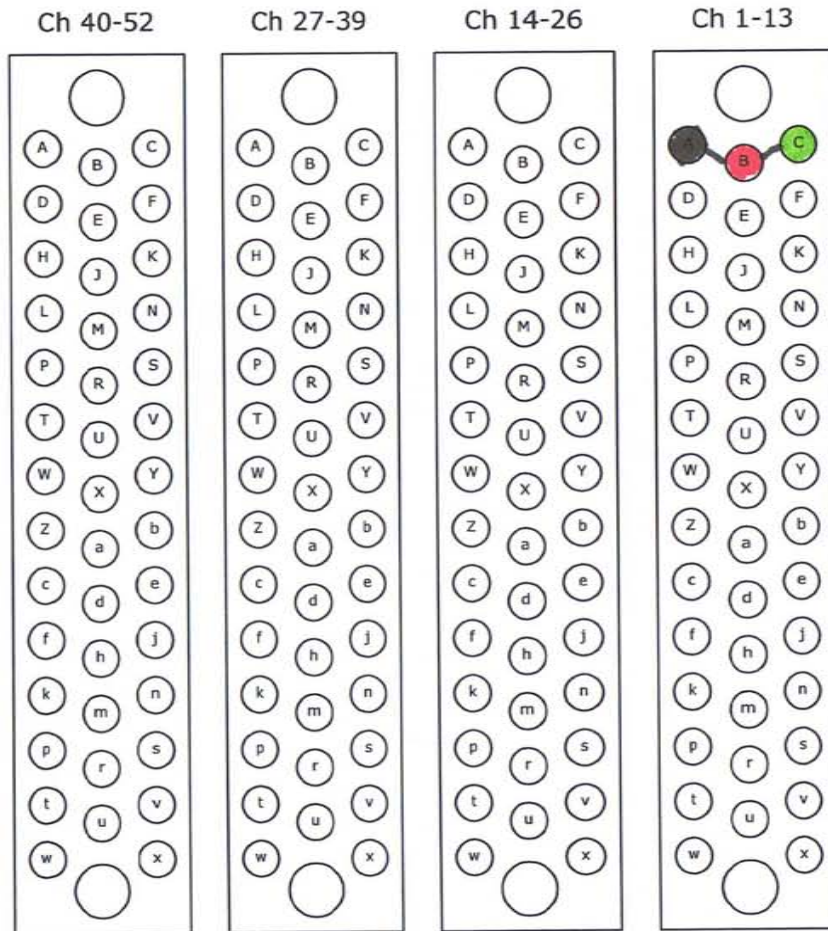
# FEMALE DT-12 PINOUT



PAIR	GND	HI	LOW
1	1	5 RED	6 BLACK
2	2	3 WHITE	7 BLACK
3	4	8 GREEN	9 BLACK
4	10	16 BLUE	17 BLACK
5	11	12 YELLOW	18 BLACK
6	13	19 BROWN	20 BLACK
7	14	15 ORNG	21 BLACK
8	23	24 WHITE	29 RED
9	25	30 GREEN	31 RED
10	26	27 BLUE	32 RED
11	22	28 YELLOW	33 RED
12	34	35 BROWN	36 RED

# RAMLATCH

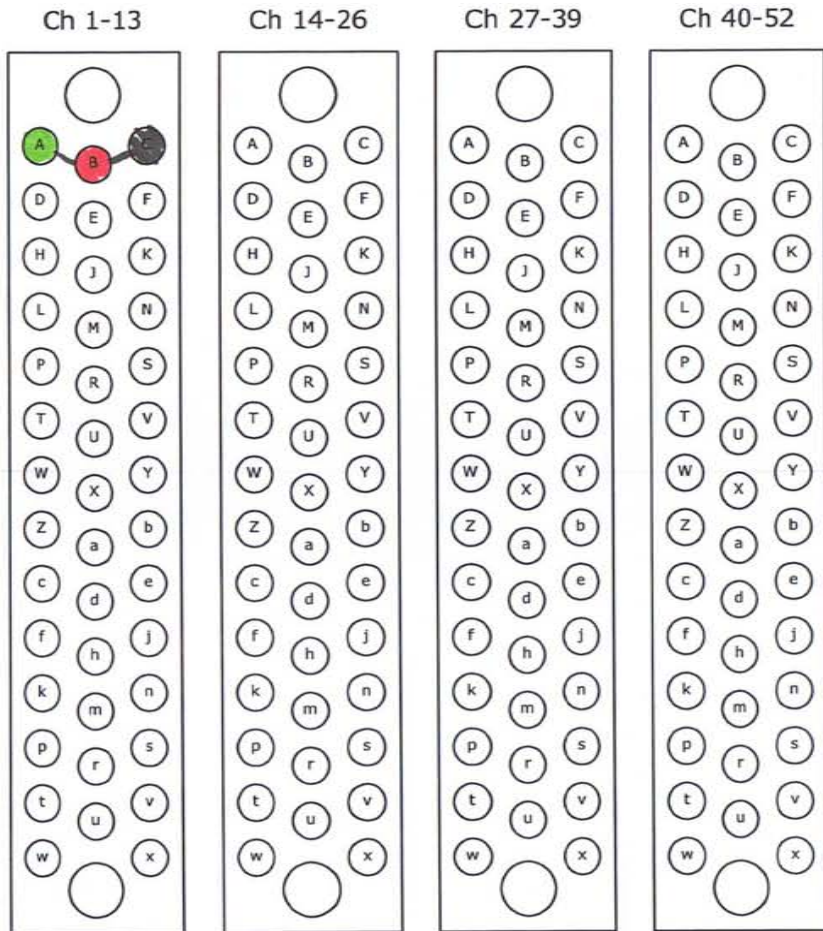
## Front View of Male Cable Mount



PAIR #	GND	HIGH	LOW
1	C	B	A
2	F	E	D
3	K	J	H
4	N	M	L
5	S	R	P
6	V	U	T
7	Y	X	W
8	b	a	Z
9	e	d	c
10	j	h	f
11	n	m	k
12	s	r	p
13	v	u	t

# RAMLATCH

## Front View of Female Chassis Mount

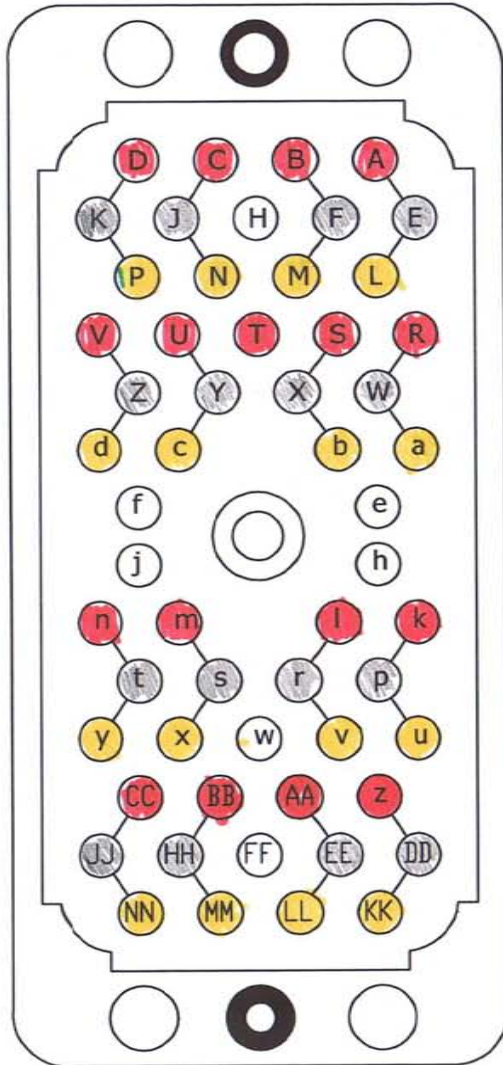


PAIR #	GND	HIGH	LOW
1	A	B	C
2	D	E	F
3	H	J	K
4	L	M	N
5	P	R	S
6	T	U	V
7	W	X	Y
8	Z	a	b
9	c	d	e
10	f	h	j
11	k	m	n
12	p	r	s
13	t	u	v



# Penny & Giles Jackfields

## 56 Pin Elco Female Connector Wiring Side



## Top Row of Jackfield

Position	High	Low	Gnd
1	A	E	L
2	B	F	M
3	C	J	N
4	D	K	P
5	R	W	a
6	S	X	b
7	U	Y	c
8	V	Z	d

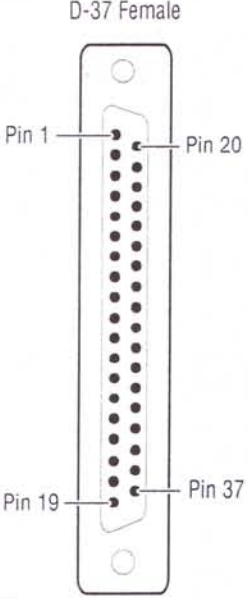
## Bottom Row of Jackfield

Position	High	Low	Gnd
1	k	p	u
2	l	r	v
3	m	s	x
4	n	t	y
5	z	DD	KK
6	AA	EE	LL
7	BB	HH	MM
8	CC	JJ	NN





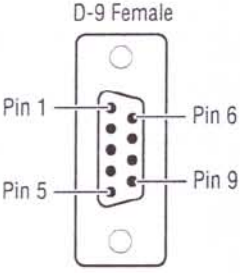
Table 7. GPI Outputs

GPI Outputs Port – J6		Pin	Function	Pin	Function
 <p>D-37 Female</p> <p>Pin 1</p> <p>Pin 19</p> <p>Pin 20</p> <p>Pin 37</p>	1	Chassis Ground	20	Out 1 B	
	2	Out 1 A	21	Out 2 B	
	3	Out 2 A	22	Out 3 B	
	4	Out 3 A	23	Out 4 B	
	5	Out 4 A	24	Chassis Ground	
	6	Out 5 A	25	Out 5 B	
	7	Out 6 A	26	Out 6 B	
	8	Out 7 A	27	Out 7 B	
	9	Out 8 A	28	Out 8 B	
	10	Chassis Ground	29	Out 9 B	
	11	Out 9 A	30	Out 10 B	
	12	Out 10 A	31	Out 11 B	
	13	Out 11 A	32	Out 12 B	
	14	Out 12 A	33	Chassis Ground	
	15	Out 13 A	34	Out 13 B	
	16	Out 14 A	35	Out 14 B	
	17	Out 15 A	36	Out 15 B	
	18	Out 16 A	37	Out 16 B	
	19	Chassis Ground			

**Notes:**

Outputs are normally open relay closures between A and B.

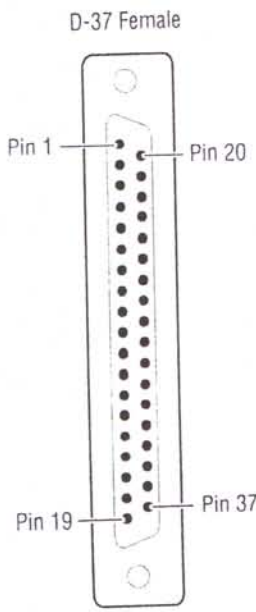
Table 8. Serial Ports

RS-422 Ports	Pin	CPL Ports - J7, J8	J9, J10, J11, J12, J13, J14, J15, J16 Serial Ports
 <p>D-9 Female</p> <p>Pin 1</p> <p>Pin 5</p> <p>Pin 6</p> <p>Pin 9</p>	1	Chassis Ground	Chassis Ground
	2	RX -	RX -
	3	TX +	TX +
	4	Chassis Ground	Chassis Ground
	5	-	-
	6	Chassis Ground	Chassis Ground
	7	RX +	RX +
	8	TX -	TX -
	9	Chassis Ground	Chassis Ground

**Notes:**

For Ports J9 – J16 only: The data directions specified on pins 2&3 and 7&8 as RX and TX may be reversed in software configuration.

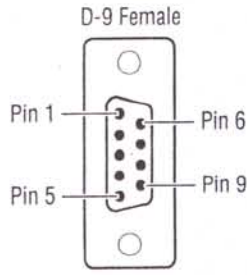
Table 6. GPI Inputs

GPI Inputs Port - J5		Pin	Function	Pin	Function
 <p>D-37 Female</p>	1	Chassis Ground	20	IN 1 B	
	2	IN 1 A	21	IN 2 B	
	3	IN 2 A	22	IN 3 B	
	4	IN 3 A	23	IN 4 B	
	5	IN 4 A	24	Chassis Ground	
	6	IN 5 A	25	IN 5 B	
	7	IN 6 A	26	IN 6 B	
	8	IN 7 A	27	IN 7 B	
	9	IN 8 A	28	IN 8 B	
	10	Chassis Ground	29	IN 9 B	
	11	IN 9 A	30	IN 10 B	
	12	IN 10 A	31	IN 11 B	
	13	IN 11 A	32	IN 12 B	
	14	IN 12 A	33	Chassis Ground	
	15	IN 13 A	34	IN 13 B	
	16	IN 14 A	35	IN 14 B	
	17	IN 15 A	36	IN 15 B	
	18	IN 16 A	37	IN 16 B	
	19	Chassis Ground			

**Notes:**

Inputs are opto-isolated.  
 A and B are polarity independent.  
 Apply from 5 to 24 volts to A and B to turn on.

Table 11. Linear Timecode

Linear Timecode Port - J3		Pin	Function
 <p>D-9 Female</p>	1	-	
	2	-	
	3	-	
	4	Chassis Ground	
	5	LTC +	
	6	-	
	7	Chassis Ground	
	8	-	
	9	LTC -	

Shield  
 Red  
 Black

**Notes:**

Currently unused. A time code reference may be supplied as VITC on the reference input or as LTC to this DB-9.

# MOXA MAINFRAME

## RJ - 45 CODE

CLIP DOWN AND OPENING FACING LEFT

PIN #                      COLOR CODE

1		GREEN
2		WH/BLUE
3		BROWN
4		WH/ORANGE
5		BLUE
6		WH/BROWN
7		ORANGE
8		WH/GREEN

# LANCE TDC-100 PINOUTS

## REMOTE CONTROL PANEL

MAINFRAME TD  
15-PIN MALE COLOR CODE 9-PIN PANEL

1	WHITE/BROWN	1
2	BLUE	2
3	WHITE/ORANGE	3
4	WHITE/GREEN	4
5	BROWN	5
9	GREEN	6
10	WHITE/BLUE	7
11	ORANGE	8

## RS-232 CONTROL

MAINFRAME TD  
15-PIN MALE COLOR CODE 9-PIN PANEL

5	WHITE/BROWN	1
3	BLUE	2
2	WHITE/ORANGE	3
4	WHITE/GREEN	4
1	BROWN	5
6	GREEN	6
7	WHITE/BLUE	7
8	ORANGE	8

# ETHERNET TWIST

NORMAL END  
RJ-45

1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

TWIST END  
RJ-45

1	WHITE/GREEN
2	GREEN
3	WHITE/ORANGE
4	BLUE
5	WHITE/BLUE
6	ORANGE
7	WHITE/BROWN
8	BROWN

# SONY ROUND TO THOMSON INTERCOM ADAPTER

CANON END IS A 19 PIN MALE ROUND CONNECTOR TO MATE TO CCU WIRING

THOMSON END USES A 15 - PIN MALE FOR THE INTERCOM AND A 15 - PIN FEMALE FOR THE TALLY

THIS ADAPTER REQUIRES ONE RED CAT 5, ONE BLACK CAT 5 AND ONE 2 PAIR CAT 6

THE RED AND BLACK COLOR CODE FONTS DESIGNATE THE RED AND BLACK CAT 5 COLOR

THE BLUE FONT DESIGNATES THE 2 PAIR CAT 5 AND THE FEMALE TALLY CONNECTOR

CANON	FUNCTION	COLOR CODE	<del>25-PIN</del>
1	PROGRAM +	WHITE/BROWN	6
2	PROGRAM -	BROWN	14
3	PROGRAM SHIELD	GREEN	7
4	TALLY +	ORANGE	TALLY 4
5 & 7	TALLY SHIELD	WHITE/ORANGE	TALLY 15
6	TALLY -	BLUE	TALLY 3
8	ENG OUT +	WHITE/ORANGE	5
9	ENG OUT -	ORANGE	13
10	N/C		
11	PROD OUT +	WHITE/ORANGE	1
12	PROD OUT -	ORANGE	9
13	ENG IN +	WHITE/BLUE	4
14	ENG IN -	BLUE	12
15	PROD IN +	WHITE/BLUE	2
16	PROD IN -	BLUE	10
17	ENG SHIELDS	WHITE/GREEN	11
18			
19	PROD SHIELDS	GREEN	3



# SONY 25D TO THOMSON INTERCOM ADAPTER

SONY END IS A 25 - PIN FEMALE

THOMSON END USES A 15 - PIN MALE FOR THE INTERCOM AND A 15 - PIN FEMALE FOR THE TALLY

THIS ADAPTER REQUIRES ONE RED CAT 5, ONE BLACK CAT 5, AND ONE 2 PAIR CAT 5

THE RED AND BLACK COLOR CODE FONTS DESIGNATE THE RED AND BLACK CAT 5 COLOR

THE BLUE FONT DESIGNATES THE 2 PAIR CAT AND THE FEMALE TALLY CONNECTOR

SONY    FUNCTION                      COLOR CODE                      THOMSON

1	ENG OUT +	WHITE/ORANGE	5
2	ENG OUT -	ORANGE	13
3	ENG SHIELD(S)	WHITE/GREEN	11
4	ENG IN +	WHITE/BLUE	4
5	ENG IN -	BLUE	12
6	PROGRAM +	WHITE/BROWN	6
7	PROGRAM -	BROWN	14
8	PRGRAM SHIELD	GREEN	7
11	TALLY +	ORANGE	TALLY 4
12 & 25	TALLY SHIELD(S)	WHITE/ORANGE	TALLY 15
14	PROD OUT +	WHITE/ORANGE	1
15	PROD OUT -	ORANGE	9
16	PROD SHIELD(S)	WHITE/GREEN	3
17	PROD IN +	WHITE/BLUE	2
18	PROD IN -	BLUE	10
24	TALLY -	BLUE	TALLY 3



# THOMSON INTERCOM & TALLY PINOUTS

INTER COM USES A 15 - PIN MALE CONNECTOR

**PIN #    COLOR CODE**

1	PROD OUT +
2	PROD IN +
3	PROD SHIELDS
4	ENG IN +
5	ENG OUT +
6	PROGRAM +
7	PROGRAM SHIELD
9	PROD OUT -
10	PROD IN -
11	ENG SHIELDS
12	ENG IN -
13	ENG OUT -
14	PROGRAM -

TALLY USE A 15 - PIN FEMALE

**PIN #    COLOR CODE**

3	GREEN TALLY
4	RED TALLY
15	TALLY SHIELD

MIC REMOTE CABLE

**PIN #    COLOR CODE**

6	WHITE/ORANGE
7	WHITE/BLUE
14	ORANGE
15	BLUE

# THOMSON RCP PINOUTS

NEW SYSTEM USES AN ETHERNET BASED SYSTEM

## RJ 45

HOLD CONNECTOR WITH THE CLIP DOWN AND OPENING FACING LEFT

**PIN #    COLOR CODE**

1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

OLD SYSTEM USES A ROUND 4 PIN CONNECTOR WITH THE FOLLOWING PINOUT

**PIN #    COLOR CODE**

A	WHITE/BLUE
B	BLUE
C	WHITE/ORANGE
D	ORANGE

# DVEOUS CPL CABLES

## SWITCHER CPL TO DVEOUS

SWITCHER END

DVEOUS END

1	WHITE/BROWN	1	WHITE/BROWN
2	BLUE	2	WHITE/BLUE
3	WHITE/ORANGE	3	WHITE/ORANGE
4	WHITE/GREEN	4	WHITE/GREEN
5	BROWN	5	BROWN
6	GREEN	6	GREEN
7	WHITE/BLUE	7	BLUE
8	ORANGE	8	ORANGE

## DVEUOUS CPL MODULE

9 PIN

25 PIN

1	WHITE/GREEN	17
2	WHITE/BLUE	16
3	WHITE/ORANGE	15
6	GREEN	4
7	BLUE	3
8	ORANGE	2

## DVEOUS GPI PINOUT

25 PIN MALE ON MAINFRAME END TO 25 PIN FEMALE ON DATA PATCH END

USE STANDARD BELDEN WIRING CODE - GPI ASSIGNMENTS ARE AS FOLLOWS

PIN #		PIN #	
2	GPI 1 +	14	GPI 1 -
3	GPI 2 +	15	GPI 2 -
4	GPI 3 +	16	GPI 3 -
5	GPI 4 +	17	GPI 4 -
6	GPI 5 +	18	GPI 5 -
7	GPI 6 +	19	GPI 6 -
8	GPI 7+	20	GPI 7 -
9	GPI 8 +	21	GPI 8 -
10	GPI 9 +	22	GPI 9 -
11	GPI 10 +	23	GPI 10 -
12	GPI 11 +	24	GPI 11 -

## PESA ROUTER - ETHERNET PATCH TO ROUTER MF

RJ - 45		COLOR CODE		DB-9 F
1		WH/ORANGE		2
2		ORANGE		7
3		WH/GREEN		1 & 6
4		BLUE		3
5		WH/BLUE		8
6		GREEN		4
7		WH/BROWN		4
8		BROWN		5

# PESA ROUTER PINOUTS

## ROUTER PRC CONTROL - 5 CONDUCTOR CABLE

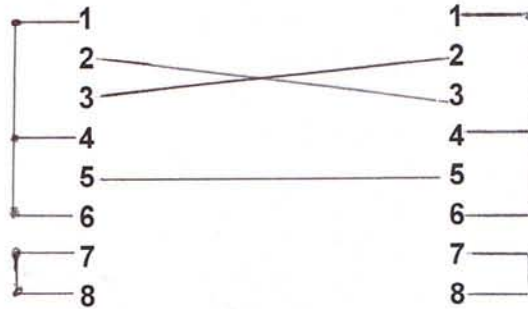
5 POS PHOENIX  
OPENING LEFT

DB-9

1	WHITE	1	SHIELD
2	GREEN	2	RED
3	SHIELD	3	GREEN
4	RED	7	BLACK
5	BLACK	8	WHITE

## ROUTER SERIAL CTL

COMPUTER TO ROUTER



## ROUTER DATA - 485 BUS

3 POS PHOENIX - SCREWS UP OPENING LEFT

TOP	BLACK
MID	SHIELD
BOT	RED

# DIGICART GPI PINOUT

DIGICART END IS A DB-25 MALE

PIN #	COLOR CODE
1	WHITE/BLUE
4	LOOP TO 8
5	BLUE
8	LOOP TO 4

DATA PATCH END IS A NORMAL RJ-45 PINOUT

THE BLUE PAIR OFF OF THE BARE END OF AN RJ-45 WILL BE USED TO TRIGGER

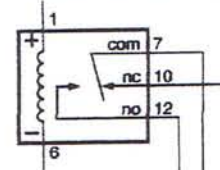
THE GPI FROM THE BINDING POSTS



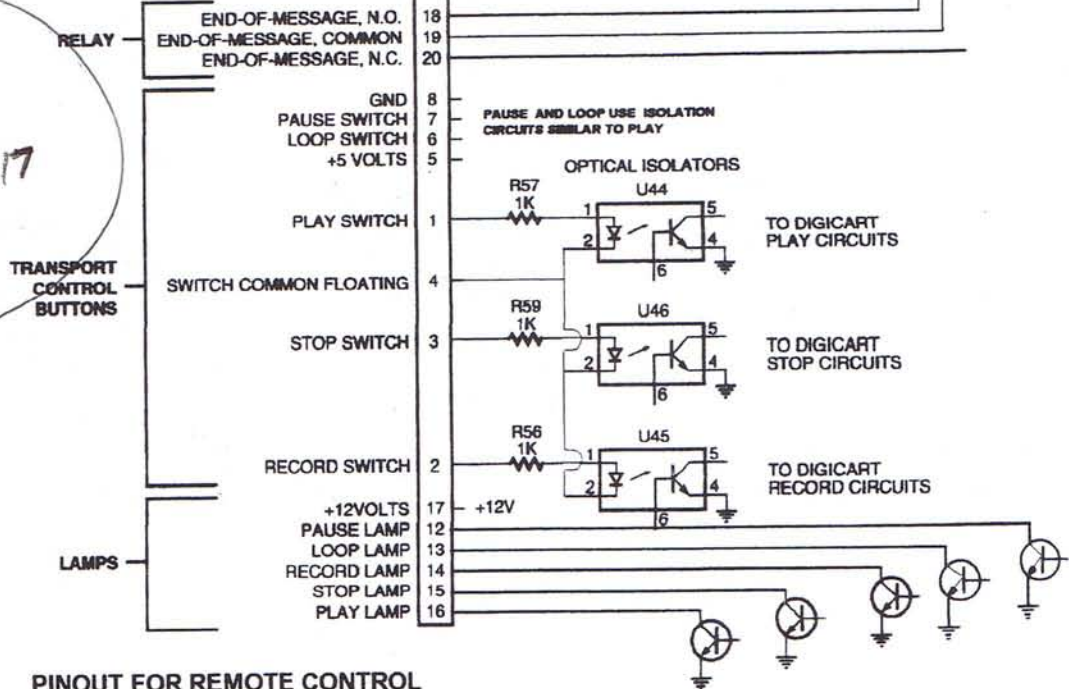
# Digicart GAT

## REMOTE CONTROL AND CUE OUT CONNECTOR (25 PIN "D" FEMALE)

SECONDARY CUE RELAY  
(END OF MESSAGE RELAY)

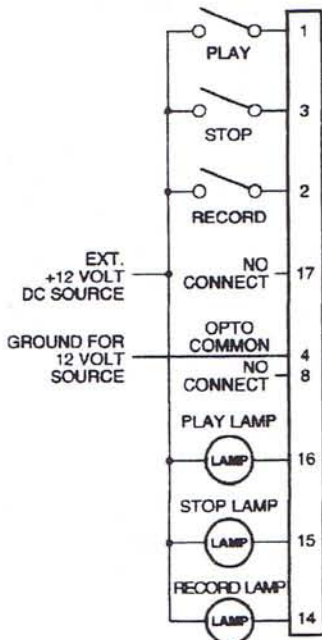


RED - 1  
BLACK - 5 OR 17  
GND - 4 & 8

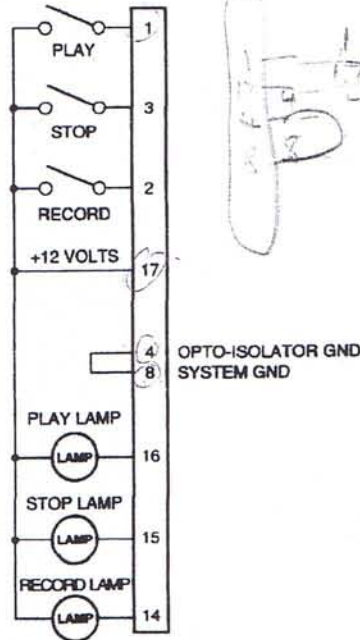


## PINOUT FOR REMOTE CONTROL LAMP CIRCUITS AND CUE OUT CONNECTOR (25 PIN "D" MALE)

CURRENT BIKES FOR  
RECORD STOP PLAY PAUSE LOOP



ISOLATED, EXTERNALLY  
POWERED CIRCUIT



NON-ISOLATED, INTERNALLY  
POWERED CIRCUIT



# KALYPSO GPI INPUT & OUTPUT

## BINDING POST SIDE

GPI #	POSITIVE	NEGATIVE
1	WHITE	GREEN/WHITE
2	RED	BLUE/WHITE
3	GREEN	BLACK/RED
4	ORANGE	WHITE/RED
5	BLUE	BLUE/RED
6	WHITE/BLACK	RED/GREEN
7	RED/BLACK	ORANGE/GREEN
8	GREEN/BLACK	BLK/WH/RED
GROUND	BLACK	N/A
GROUND	ORANGE/BLACK	N/A

# KALYPSO GPI INPUT & OUTPUT

## DB-37 CONEECTOR

USING A 25 CONDUCTOR CABLE

PIN #	COLOR CODE	PIN #	COLOR CODE
1	BLACK	20	GREEN/WHITE
2	WHITE	21	BLUE/WHITE
3	RED	22	BLACK/RED
4	GREEN	23	WHITE/RED
5	ORANGE	24	ORANGE/RED
6	BLUE	25	BLUE/RED
7	WHITE/BLACK	26	RED/GREEN
8	RED/BLACK	27	ORANGE/GREEN
9	GREEN/BLACK	28	BLK/WH/RED
10	ORANGE/BLACK	29	WH/BLK/RED
11	BLUE/BLACK	30	RED/BLK/WH
12	BLACK/WHITE	31	GREEN/BLK/WH
13	RED/WHITE		

# THOMSON MIC REMOTE PINOUTS

EL JEFFE HUB USES RJ - 45 WITH NORMAL PINOUT

## RJ 45

HOLD CONNECTOR WITH THE CLIP DOWN AND OPENING FACING LEFT

**PIN #    COLOR CODE**

1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

CCU END GOES INTO TALLY CONNECTOR 15 - PIN FEMALE

**PIN #    COLOR CODE**

6	WHITE/ORANGE
7	WHITE/BLUE
14	ORANGE
15	BLUE

# SONY MIC REMOTE PINOUTS

EL JEFFE HUB USES RJ - 45 WITH NORMAL PINOUT

## RJ 45

HOLD CONNECTOR WITH THE CLIP DOWN AND OPENING FACING LEFT

**PIN #    COLOR CODE**

1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

CCU END USES A 15 - PIN MALE

**PIN #    COLOR CODE**

5	WHITE/GREEN
6	ORANGE
7	WHITE/ORANGE
8	BLUE
9	GREEN
15	WHITE/BLUE



Sony HD Camera - 55-24

SMPTE 292M

Analog signal

FRAME REFERENCE IN: BNC

±0.3 V, ternary SYNC, 75 Ohms  
Or, black burst signal 0.286 V p-p, 75 Ohms

FRAME REFERENCE OUT: BNC

THROUGH OUT/0.3 V p-p, FRAME SYNC pulse, 75 Ohms

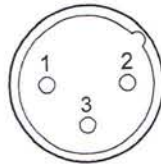
**8-3-1-2 CAMERA connector (optical/electrical composite connector)**

VIDEO Y/PB/PR  
Conforms to BTA-S004B,  
1.485 Gbps/  
1.4835 Gbps serial  
SMPTE 292M

RET VIDEO Y/PB/PR  
Conforms to BTA-S004B,  
1.485 Gbps/  
1.4835 Gbps serial  
SMPTE 292M

INCOM 2ch  
MIC 2ch  
DIGITAL AUDIO (AES/EBU)  
CAMERA COMMAND  
PROMPTER

**8-3-1-3 MIC1/MCI2 (XLR 3-pin, Male)**



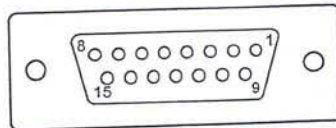
(External view)

No.	Signal	Specifications
1	MIC OUT (G)	0 dBu/-20 dBu
2	MIC OUT (X)	(Selectable with S502, S503/AVP-4)
3	MIC OUT (Y)	

(0 dBu = 0.775 Vrms)

**8-3-1-4 MIC REMOTE (D-sub 15-pin, Female)**

(WF REMOTE (D-sub 15-pin, Female))



(External view)

In the case of MIC REMOTE mode : S423-3/AT-149 → OFF

No.	Signal	Specifications
1	+5.5 V OUT	Max. 250 mA
2	TALLY GND	GND for TALLY
3	G TALLY OUT	ON (GND) : Max. 30 mA IN
4	R TALLY OUT	ON (GND) : Max. 30 mA IN
5	CHU MIC CONT2	*1 Refer to the below column.
6	AMP CONT1	*1 Refer to the below column.

No.	Signal	Specifications
7	GAIN IN CONT0	*1 Refer to the below column.
8	MIC1 GAIN CONT ON/OFF IN	*2 Refer to the below column
9	GND	GND for +5.5 V
10	TALLY OUT	R/G TALLY OUT ON (GND) : Max. 30 mA IN
11	NC	No connection
12	ASPECT REMOTE ON/OFF	L : REMOTE
13	ASPECT CONT1	*3 Refer to the below column.
14	CTL CONT2	*3 Refer to the below column.
15	MIC2 GAIN CONT ON/OFF IN	*2 Refer to the below column

\*1 CHU MIC 1/2 AMP GAIN

CONT0	CONT1	CONT2	CHU MIC AMP GAIN
H	H	H	60 dB
L	H	H	50 dB
H	L	H	40 dB
L	L	H	30 dB
H	H	L	20 dB

The setup for the HDCU-700A mode is shown in parenthesis ( ).

In the case of the HDCU-700A mode : S423-2/AT-149 → ON

\*2

8pin	15pin	MIC GAIN CONT
L	L	MIC 1 and 2 ON
L	H	MIC 1 ON
H	L	MIC 2 ON
H	H	INTERNAL set

\*3

CONT1	CONT2	ASPECT
L	H	SQ (16 : 9)
H	H	EC (4 : 3)
L	L	INTERNAL set
H	L	LB (4 : 3)

In the case of the WF REMOTE mode : S423-3/AT-149 → ON Recall system

No.	Signal	Specifications
1	NC	No connection
2	NC	No connection
3	NC	No connection
4	NC	No connection
5	RECALL2 (G)	LOW ACTIVE
6	RECALL3 (B)	LOW ACTIVE
7	RECALL1 (R)	LOW ACTIVE
8	RECALL4 (SEQ)	LOW ACTIVE
9	GND	
10	NC	No connection
11	NC	No connection
12	RECALL5 (ENC)	LOW ACTIVE
13	RECALL6 (R+B)	LOW ACTIVE

5 Wh/Green  
6 Orange  
7 Wh/Orange  
3 Blue  
9 Green  
5 Wh/Blue

# SONY TO SONY INTERCOM ADAPTER

CANON END IS A 19 PIN MALE ROUND CONNECTOR TO MATE TO CCU WIRING

25 PIN END IS MALE TO CCU

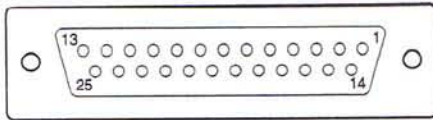
THIS ADAPTER REQUIRES ONE RED CAT 5, AND ONE BLACK CAT 5

THE RED AND BLACK COLOR CODE FONTS DESIGNATE THE RED AND BLACK CAT 5 COLOR

CANON	FUNCTION	COLOR CODE	25 PIN
1	PROGRAM +	WHITE/ORANGE	6
2	PROGRAM -	ORANGE	7
3	PROGRAM SHIELD	WHITE/GREEN	8
4	TALLY +	WHITE/ORANGE	11
5	TALLY SHIELD	WHITE/GREEN	12 & 25
6	TALLY -	ORANGE	24
7	LOOP FROM 5	LOOP	
8	ENG OUT +	WHITE/BLUE	1
9	ENG OUT -	BLUE	2
10	N/C		
11	PROD OUT +	WHITE/BLUE	14
12	PROD OUT -	BLUE	15
13	ENG IN +	WHITE/BROWN	4
14	ENG IN -	BROWN	5
15	PROD IN +	WHITE/BROWN	17
16	PROD IN -	BROWN	18
17	ENG SHIELDS	GREEN	3
18			
19	PROD SHIELDS	GREEN	16



**INTERCOM/TALLY/PGM (D-sub 25-pin, Female)**

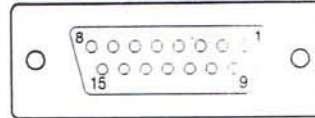


- EXT VIEW -

(0 dBu = 0.775 Vrms)

No.	Signal	Specifications
1	ENG (R) (X) OUT	ENG SYSTEM RECEIVE
2	ENG (R) (Y) OUT	0 dBu BALANCED
3	ENG (G)	GND for ENG
4	ENG (T) (X) IN	ENG SYSTEM TALK
5	ENG (T) (Y) IN	0 dBu BALANCED
6	PGM1 (X) IN	-20 dBu/0 dBu
7	PGM1 (Y) IN	(Selectable with S201/AT board)
8	PGM1 (G) IN	
9	GND	GND for AUX
10	AUX8	
11	R TALLY (X) IN	ON : 24 V dc, TTL (H), SHORT
12	R TALLY (Y) IN	OFF : 0 V dc, TTL (L), OPEN
13	GND	CHASSIS GND
14	PROD (R) (X) OUT	PROD SYSTEM
15	PROD (R) (Y) OUT	RECEIVE 0 dBu BALANCED
16	PROD (G)	GND for PROD
17	PROD (T) (X) IN	PROD SYSTEM TALK
18	PROD (T) (Y) IN	0 dBu BALANCED
19	PGM2 (X) IN	-20 dBu/0 dBu
20	PGM2 (Y) IN	(Selectable with S202/AT board)
21	PGM2 (G) IN	
22	AUX7	
23	AUX6	
24	G TALLY (X) IN	ON : 24 V dc, TTL (H), SHORT
25	G TALLY (Y) IN	OFF : 0 V dc, TTL (L), OPEN

**WF MODE (D-sub 15-pin, Female)**



- EXT VIEW -

No.	Signal	Specifications
1	NC	No connection
2	NC	No connection
3	RECALL9	LOW ACTIVE
4	NC	No connection
5	RECALL2	LOW ACTIVE
6	RECALL3	
7	RECALL1	
8	RECALL4	
9	GND	
10	NC	No connection
11	RECALL10	LOW ACTIVE
12	RECALL5	
13	RECALL6	
14	RECALL7	
15	RECALL8	

Super Slo Mo Camera

### INTERCOM/TALLY/PGM (19P, MALE)



(EXTERNAL VIEW)

(0 dBu=0.775 Vrms)

No.	Signal	Specifications
1	PGM (X) IN	-20 dBu/0 dBu (Selectable with S2081/AT board)
2	PGM (Y) IN	
3	PGM (G) IN	
4	R TALLY (X) IN	ON: 24 Vdc, TTL (H), SHORT OFF: 0 Vdc, TTL (L), OPEN
5	R TALLY (Y) IN	
6	G TALLY (X) IN	ON: 24 Vdc, TTL (H), SHORT OFF: 0 Vdc, TTL (L), OPEN
7	G TALLY (Y) IN	
8	ENG (R) (X) OUT	ENG SYSTEM RECEIVE 0 dBu BALANCED
9	ENG (R) (Y) OUT	
10	GND	CHASSIS GND
11	PROD (R) (X) OUT	PROD SYSTEM RECEIVE 0 dBu BALANCED
12	PROD (R) (Y) OUT	
13	ENG (T) (X) IN	ENG SYSTEM TALK 0 dBu BALANCED
14	ENG (T) (Y) IN	
15	PROD (T) (X) IN	PROD SYSTEM TALK 0 dBu BALANCED
16	PROD (T) (Y) IN	
17	ENG (G)	GND for ENG
18	NC	No connection
19	PROD (G)	GND for PROD

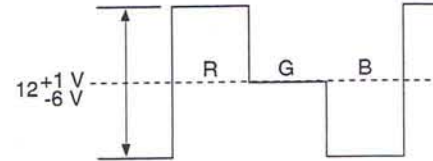
### WF MODE (4P, FEMALE)



(EXTERNAL VIEW)

No.	Signal	Specifications
1	SEQ CONT OUT (G)	OPEN COLLECT + (PNP) /- (NPN)
2	SEQ CONT OUT (X)	(Selectable with S
3	STAIR CASE OUT (X) *3)	
4	STAIR CASE OUT (G)	GND for STAIR C

\*3) Stair Case signal



### REMOTE (8P, FEMALE)

RCP/CNU  
AUX



(EXTERNAL VIEW)

No.	Signal	Specifications
1	TX (+)	CCU SERIAL DA
2	TX (-)	
3	RX (+)	*4)
4	RX (-)	
5	TX GND	GND for TX
6	POWER (+) OUT	RCP POWER, +3
7	POWER (-) OUT	GND for POWER
8	SPARE	
	CHASSIS GND	CHASSIS GND

\*4) RCP/CNU : RCP/CNU/BVP/MSU/VCS SERIAL DA  
AUX : AUX SERIAL DATA

# SONY 25D INTERCOM CONNECTOR

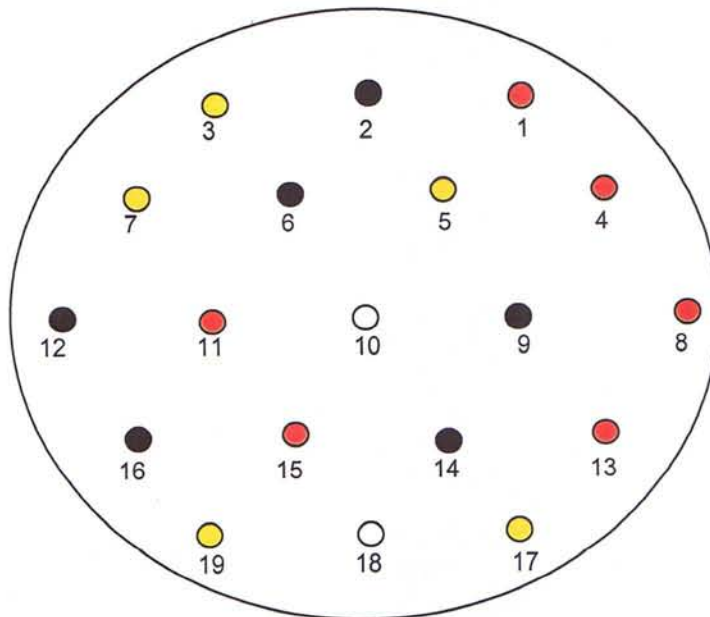
## 25D MALE CONNECTOR

PIN #      COLOR CODE

1	ENG OUT +
2	ENG OUT -
3	ENG SHIELDS
4	ENG IN +
5	ENG IN -
6	PROGRAM +
7	PROGRAM -
8	PROGRAM SHIELD
11	TALLY +
12	TALLY SHIELD
14	PROD OUT +
15	PROD OUT-
16	PROD SHIELDS
17	PROD IN +
18	PROD IN -
24	TALLY -
25	LOOP FROM 12

# SONY CAMERA INTERCOM

- 1 PROGRAM HIGH
- 2 PROGRAM LOW
- 3 PROGRAM SHIELD
- 4 RED TALLY
- 5 TALLY SHIELD
- 6 GREEN TALLY
- 7 TALLY SHIELD
- 8 4 WIRE OUT RED
- 9 4 WIRE BLACK
- 10 NO CONNECTION
- 11 PRODUCTION OUT RED
- 12 PRODUCTION OUT BLACK
- 13 4 WIRE IN RED
- 14 4 WIRE IN BLACK
- 15 PRODUCTION IN RED
- 16 PRODUCTION IN BLACK
- 17 4 WIRE SHIELDS
- 18 NO CONNECTION
- 19 PRODUCTION SHIELDS





### GVG 4000 GPI

DB-25 PIN #	INPUTS	OUTPUTS	10 POS-PHOENIX	BELDEN 25C	BINDING POSTS
1	GPI 1 +	GPI 1 +	1-2	BLACK	1 RED
14	GPI 1 -	GPI 1 -	1-3	WHITE	1 BLACK
2	GPI 2 +	GPI 2 +	1-4	RED	2 RED
15	GPI 2 -	GPI 2 -	1-5	GREEN	2 BLACK
3	GPI 3 +	GPI 3 +	1-6	ORANGE	3 RED
16	GPI 3 -	GPI 3 -	1-7	BLUE	3 BLACK
4	GPI 4 +	GPI 4 +	1-8	WH/BLACK	4 RED
17	GPI 4 -	GPI 4 -	1-9	RED/BLACK	4 BLACK
5	GPI 5 +	GPI 5 +	2-2	GREEN/BLACK	5 RED
18	GPI 5 -	GPI 5 -	2-3	OR/BLACK	5 BLACK
6	GPI 6 +	GPI 6 +	2-4	BLUE/BLACK	6 RED
19	GPI 6 -	GPI 6 -	2-5	BLACK/WHITE	6 BLACK
7	GPI 7 +	GPI 7 +	2-6	RED/WHITE	7 RED
20	GPI 7 -	GPI 7 -	2-7	GREEN/WHITE	7 BLACK
8	GPI 8 +	GPI 8 +	2-8	BLUE/WHITE	8 RED
21	GPI 8 -	GPI 8 -	2-9	BLACK/RED	8 BLACK
22	5 VOLTS	GROUND	1-1	BLACK/WH/RED	5V OR GROUND
23	GROUND	GROUND	1-10	WH/BLACK/RED	GROUND
24	5 VOLTS	GROUND	2-1	RED/BLACK/WHITE	5V OR GROUND
25	GROUND	GROUND	2-10	GR/BLACK/WHITE	GROUND



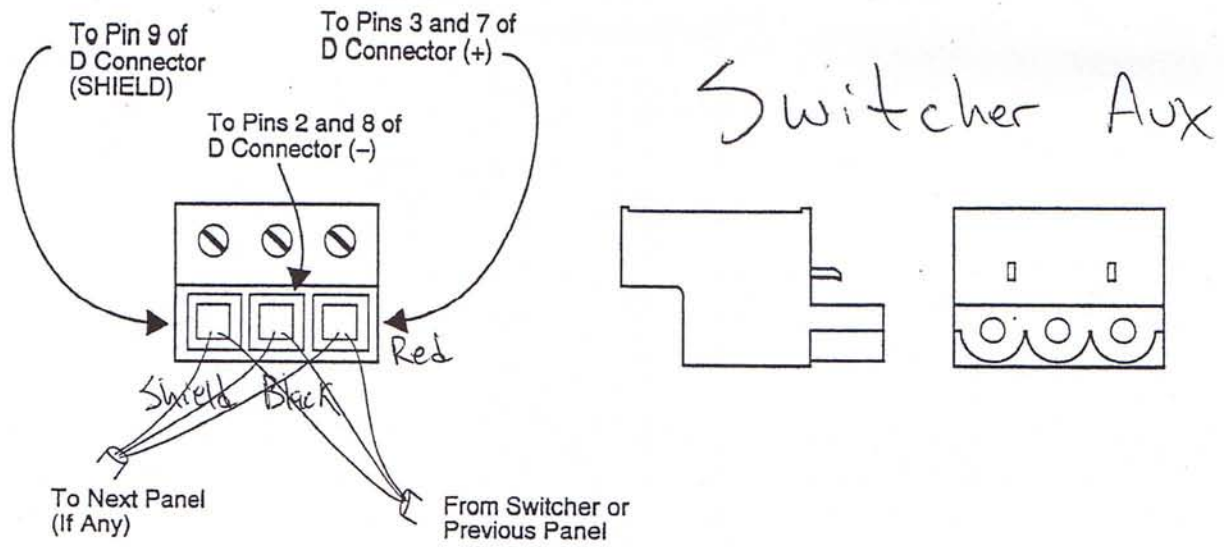


Figure 3. Cable Connections on Rear of Remote Aux Panel

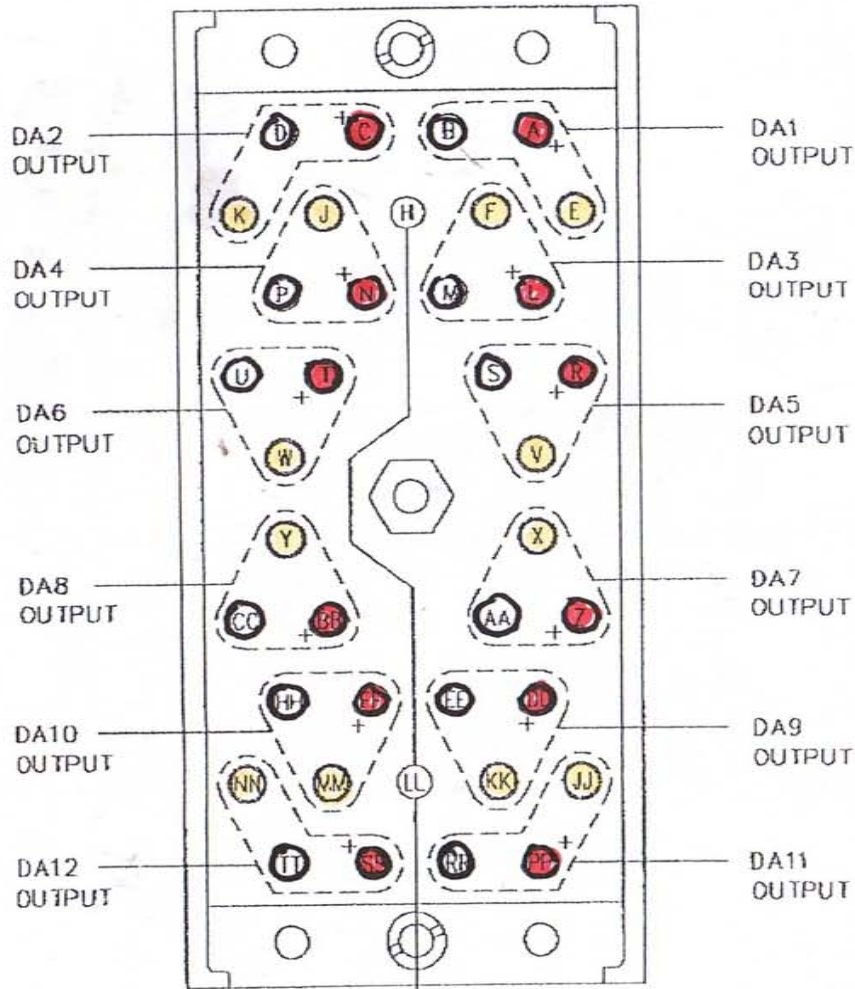
If you are building your own cable, use a shielded twisted pair such as Belden 8451 and refer to Table 1 below.

Table 1. Cable Connections

Panel Connector	D Connector—Pin Number	Factory Supplied Cable
Shield	9	Shield
- (Minus)	2 and 8	Black
+ (Plus)	3 and 7	Red

LEFT & RIGHT OUTPUTS TYPICAL

Female



WIRING SIDE  
EDAC 38 PIN RECEPTACLE  
516-038-520-202

SHIELD PIN

**WBS** WARD-BECK SYSTEMS  
AUDIO DISTRIBUTION SYSTEM  
OUTPUT CONNECTOR  
LAYOUT

MFB2E/S-L3

ISS. 1

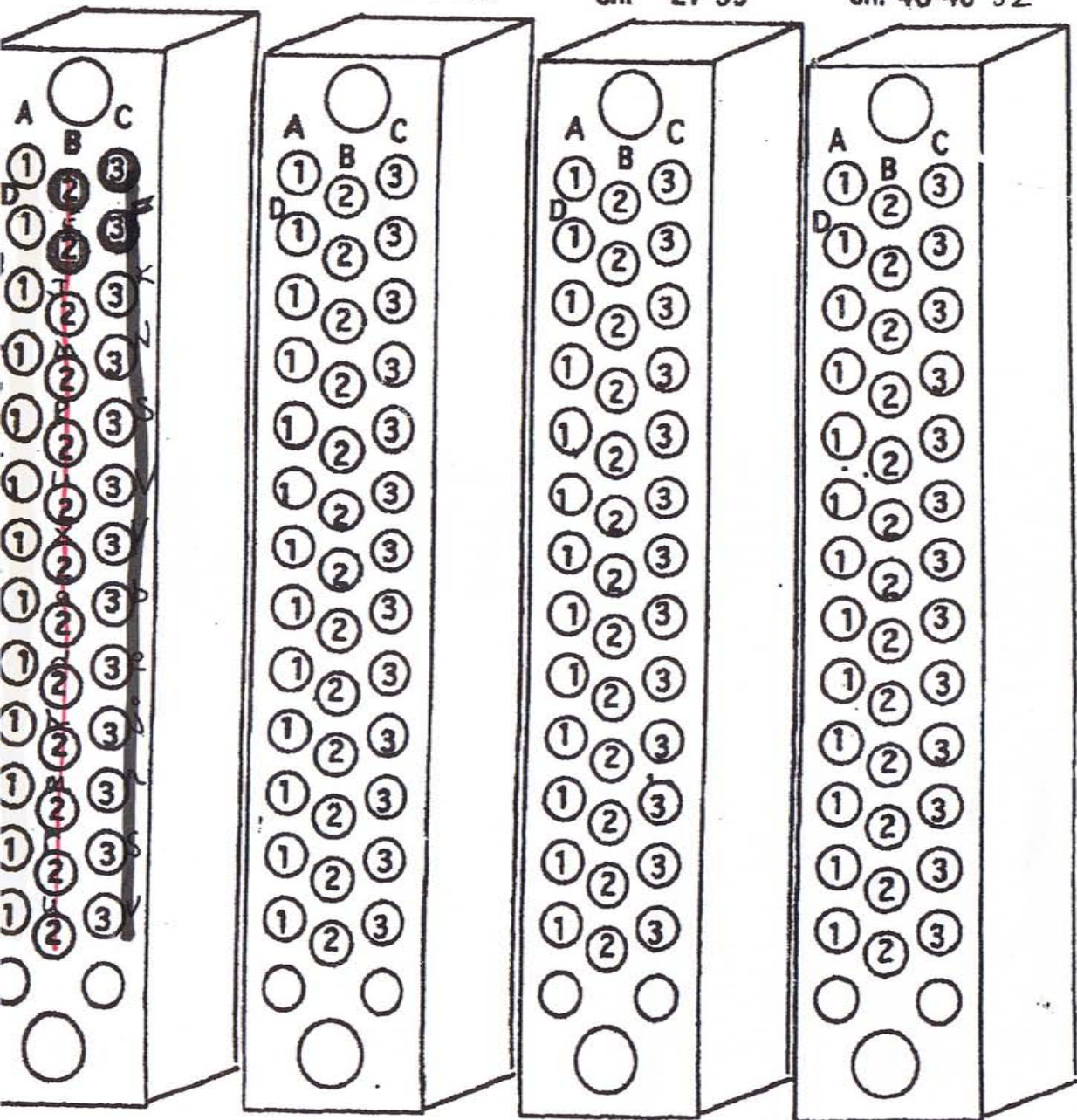
313-331-0605

ch. 1-13

ch. 14-26

ch. 27-39

ch. 40-48-52

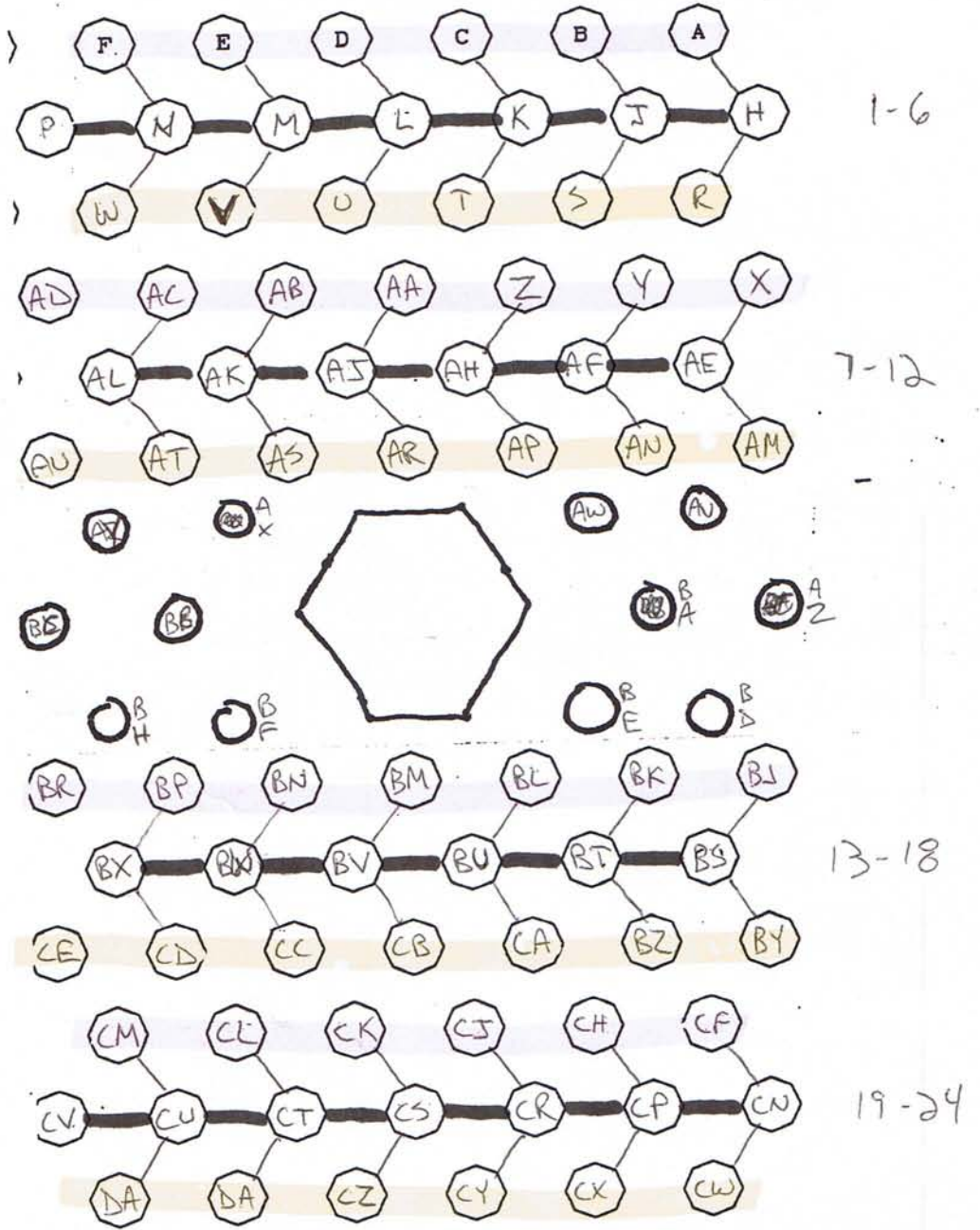


$A = \frac{1}{2}$ (SHIELD)	<u>CH.1</u>	$C = \frac{1}{2}$
$B = +$		$d = +$
$C = -$		$e = -$
$D = \frac{1}{2}$	<u>CH.2</u>	$f = \frac{1}{2}$
$E = +$		$h = +$
$F = -$		$j = -$
$H = \frac{1}{2}$	<u>CH.3</u>	$k = \frac{1}{2}$
$J = +$		$m = +$
$K = -$		$n = -$
$L = \frac{1}{2}$	<u>CH.4</u>	$p = \frac{1}{2}$
$M = +$		$r = +$
$N = -$		$s = -$
$P = \frac{1}{2}$	<u>CH.5</u>	$t = \frac{1}{2}$
$R = +$		$u = +$
$S = -$		$v = -$
$T = \frac{1}{2}$	<u>CH.6</u>	
$U = +$		
$V = -$		
$W = \frac{1}{2}$	<u>CH.7</u>	
$X = +$		
$Y = -$		
$Z = \frac{1}{2}$	<u>CH.8</u>	
$a = +$		
$b = -$		



90  
Pin

PLUG FRONT VIEW

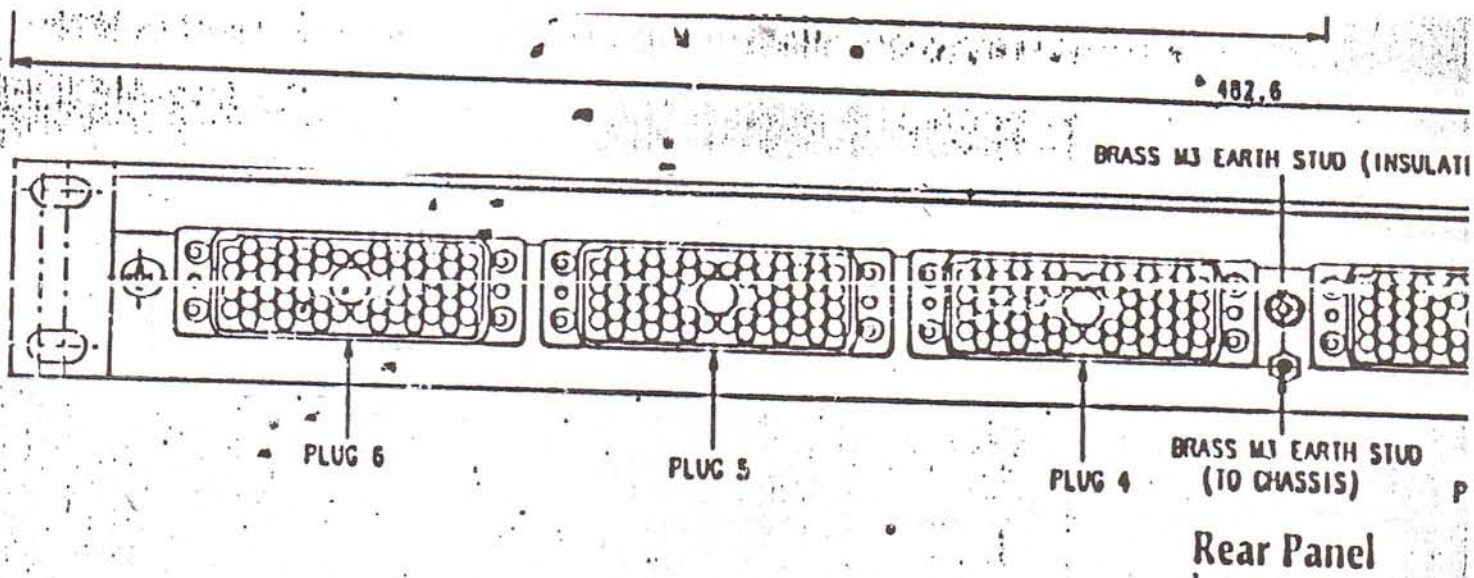


Audio Accessories ~~NA~~ Jackfield

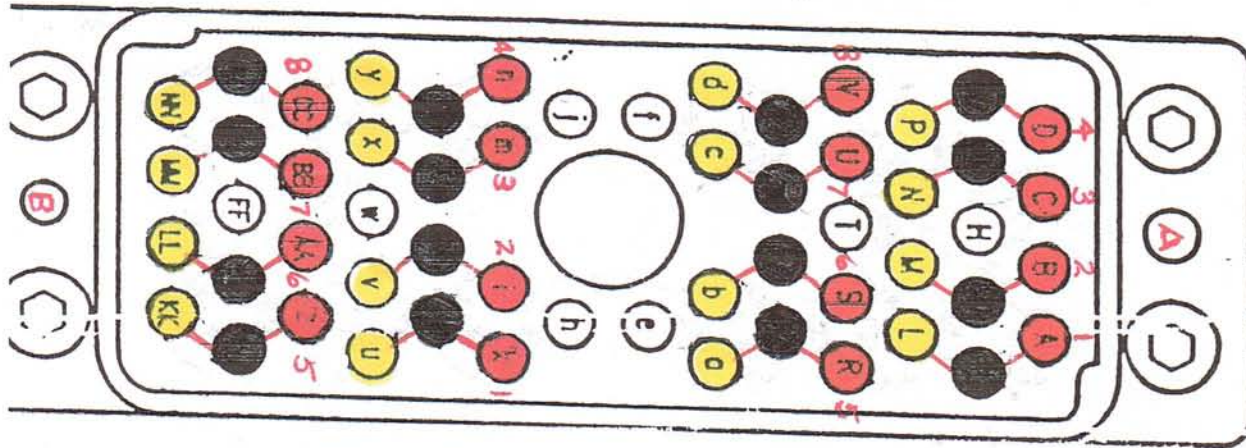
Single Rack Unit

4 Connectors per Jackfield →

- #1 - Top 1-24
- #2 - Bottom 1-24
- #3 - Top 25-48
- #4 - Bottom 25-48



## Connector Details



(Plug 1 Shown) 56 Way EDAC type

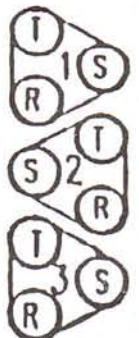
PLU
PLU
PLU
PLU
P
P
F
i

## Detail

T = TIP

R = RING

S = SLEEVE



## Configurations

T, R, S Brought Out (Half Normalled)

T, R, S Brought Out (Full Noi