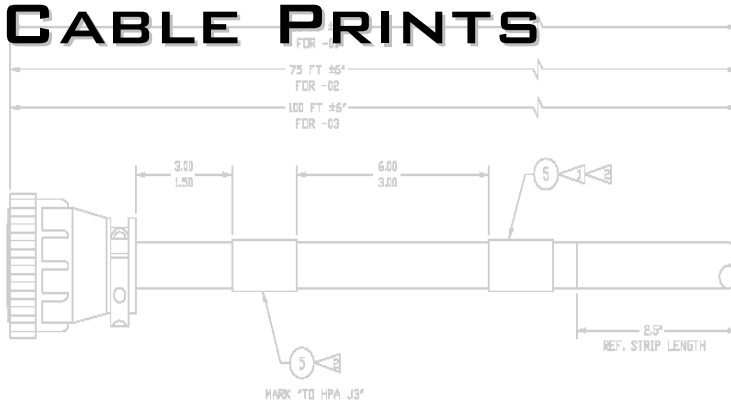


REMOTE CONTROL PINOUT LISTING AND CABLE PRINTS

WIRE LIST									
NO.	PAIR	FROM	TO	TERM.	TO	DES.	FORM	NO.	TERM.
		DES.	NO.	NO.	NO.	NO.	NO.		
		HPA		REMOTE					
3	RED PAIR 2	P3 - 3 -	-	-	-	-	-	-	Bias Voltage Pair 2
4	BLK PAIR 2	P3 - 4 -	-	-	-	-	-	-	Bias Voltage Pair 2
5	RED PAIR 3	P3 - 5 -	-	-	-	-	-	-	Bias Current Pair 3
6	BLK PAIR 3	P3 - 6 -	-	-	-	-	-	-	Bias Current Pair 3
7	RED PAIR 4	P3 - 7 -	-	-	-	-	-	-	CROWBAR READY Pair 4
8	BLK PAIR 4	P3 - 8 -	-	-	-	-	-	-	CROWBAR READY Pair 4
9	RED PAIR 5	P3 - 10 -	-	-	-	-	-	-	CROWBAR TRIGGERED Pair 5
10	BLK PAIR 5	P3 - 11 -	-	-	-	-	-	-	CROWBAR TRIGGERED Pair 5
11	RED PAIR 6	P3 - 12 -	-	-	-	-	-	-	CROWBAR FIRED Pair 6
12	BLK PAIR 6	P3 - 13 -	-	-	-	-	-	-	CROWBAR FIRED Pair 6
13	RED PAIR 7	P3 - 14 -	-	-	-	-	-	-	HV BEAM ON Pair 7
14	BLK PAIR 7	P3 - 15 -	-	-	-	-	-	-	HV BEAM ON Pair 7
15	RED PAIR 8	P3 - 16 -	-	-	-	-	-	-	AMP REVERSE PWR Pair 8
16	BLK PAIR 8	P3 - 17 -	-	-	-	-	-	-	AMP REVERSE PWR Pair 8
17	RED PAIR 9	P3 - 18 -	-	-	-	-	-	-	AMP FORWARD PWR Pair 9
18	BLK PAIR 9	P3 - 19 -	-	-	-	-	-	-	AMP FORWARD PWR Pair 9
19	RED PAIR 10	P3 - 23 -	-	-	-	-	-	-	HV BEAM ON/OFF + Pair 10
20	BLK PAIR 10	P3 - 24 -	-	-	-	-	-	-	HV BEAM ON/OFF - Pair 10
21	RED PAIR 11	P3 - 20 -	-	-	-	-	-	-	RF SYSTEM INTERLOCK Pair 11
22	BLK PAIR 11	P3 - 21 -	-	-	-	-	-	-	RF SYSTEM INTERLOCK Pair 11
23	RED PAIR 12	P3 - 27 -	-	-	-	-	-	-	HV CONNECT/ISOLATE Pair 12
24	BLK PAIR 12	P3 - 28 -	-	-	-	-	-	-	HV CONNECT/ISOLATE Pair 12
25	DRAIN	-	-	-	-	-	-	-	CABLE GND



NOTES:

1 MARK P/N, VERSION & CURRENT REVISION LEVEL.

2 NOMENCLATURE TO BE 12 PT HELVETICA MEDIUM, BLACK CHARACTERS ON WHITE TAPE.

3 P3 1-19 ARE STATUS, 23-28 ARE CONTROL.

DCX MILLENNIUM WITH PANELVIEW TOUCHSCREEN SYSTEM CONTROLLER

1	1	1	4	60088-01	CLAMP, CABLE SHELL SIZE 23
22	22	22	2	60088-01	CLAMP, CABLE SHELL SIZE 23
22	22	22	2	60088-01	CLAMP, CABLE SHELL SIZE 23
100FT	75FT	30FT	1	60650-01	CABLE, PROCESS CTRL 15PR 22AWG
13	13	13	1	60650-01	CABLE, PROCESS CTRL 15PR 22AWG
QTY/VERSION				PART NO.	DESCRIPTION
PARTS LIST					
COMARK a THOMSON company					
CABLE ASSEMBLY, REMOTE, HPA, P3					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				SIZE	CODE IDENT
FRACTIONS 1/32				10/4/95	407755
2 PLACE DECIMALS .03 L&D				10/4/95	407755
3 PLACE DECIMALS .010 L&D				10/4/95	407755
ANGLES 1/2°				10/4/95	407755
REMOVE BURRS AND SHARP EDGES				10/4/95	407755
YES ☒ NO ☐				10/4/95	407755
APPLICATION				SCALE	FULL
NEXT ASSY.				JOB NO.	
USED ON				SHEET	1 OF 1

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Remote Control Pinout Listing and Cable Prints

DCX Millennium (with PanelView Touchscreen System Controller)

Table of Contents

46745504-430	Pinout Listing, RMT CTL DCX
410984	Cable Assembly, Remote, Exciter P1
407753	Cable Assembly, Remote, HPA P1
407754	Cable Assembly, Remote, HPA P2
407755	Cable Assembly, Remote, HPA P3

Note: Cable lengths are not shown in the chart and are as follows:

-01 (50-feet)

-02 (75-feet)

-03 (100-feet)

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[illegible]

Remote Control, Indication and Measurements

DCX Transmitter Range :

System Controls

	Description	Connection	Location	Input
**	Transmitter ON	IN-0	1	1
**	Transmitter Off	IN-1	1	1
	Transmitter Standby	IN-2	1	1
	RF switch pattern A	IN-3	1	1
	RF switch pattern B	IN-4	1	1
	RF switch pattern C	IN-5	1	1
	RF switch pattern D	IN-6	1	1
	RF switch pattern E	IN-7	1	1
	Exciter select	IN-8	1	1
	FWD AGC Enable	IN-9	1	1
	REV AGC Enable	IN-10	1	1
	Not used	IN-11	1	1
	System/HPA fault reset	IN-12	1	1
	HPA auto restart reset	IN-13	1	1
	RF off	IN-14	1	1
**	Failsafe interlock from remote control	IN-15	1	1
	Raise power exciter 1	J1-15	2	3
	Lower power exciter 1	J1-16	2	3
	APC disable exciter 1	J1-17	2	5
	Save Correction – exc 1	J1-18	2	3
	Command Common Exciter 1	J1-19	2	2
	Flat Filter ALE – exc 1	J1-20	2	5
	Adaptive Correction – exc 1	J1-21	2	5
	Load Linear LUT – exc 1	J1-22	2	5
	+24 VDC output	J1-36	2	4
	Interlock input (+24VDC)	J1-37	2	4
	Re-Correct LUT and ALE – exc 1	J1-26	2	3
	Raise Power exciter 2	J1-27	2	3
	Lower Power exciter 2	J1-28	2	3
	APC Disable exciter 2	J1-29	2	5
	Save Correction – exc 2	J1-30	2	3
	Command Common Exciter 2	J1-31	2	2
	Flat Filter ALE – exc 2	J1-32	2	5
	Adaptive Correction – exc 2	J1-33	2	5
	Re-Correct LUT and ALE – exc 2	J1-34	2	3
	Load Linear LUT – exc 2	J1-35	2	5

** These items are the minimum required per Thomson recommendation and/or FCC requirement.

Location 1 = Transmitter Remote Control I/O Block on 46745490 Remote Control I/O Panel Assy.

Location 2 = J1 on connector plate assembly at the top of the exciter cabinet

Input 1 = 10- 30VDC (11 mA @ 30V, 2.0 mA @ 10V) = Active State (24V typ)

Off state maximum current = 1.5 mA @ 5VDC

Input 2 = Ground common contact connection for commands. Tied to GND internal to exciter cabinet at A14TB1.

Input 3 = Momentary connection to command common (input #2) activates input.

Input 4 = External interlock – short circuit required - open for fault.

Input 5 = Latched connection to command common (input #2) activates input.

Remote Control, Indication and Measurements

DCX Transmitter Range :

System Status

	Description	Connection	Location	Output
	Status Normal :			
**	Transmitter On	OUT-0	1	1
**	Transmitter Off	OUT-1	1	1
	Transmitter Standby	OUT-2	1	1
	RF Switch pattern A	OUT-3	1	1
	RF Switch pattern B	OUT-4	1	1
	RF Switch pattern C	OUT-5	1	1
	RF Switch pattern D	OUT-6	1	1
	RF Switch pattern E	OUT-7	1	1
	Exciter "A" Selected	OUT-8	1	1
	System VSWR fault Status	OUT-9	1	1
	Combiner/CIF Load cooling fault	OUT-10	1	1
	Cooling pump fault	OUT-11	1	1
	AGC fault	OUT-12	1	1
	HPA Ready	OUT-13	1	1
	FWD AGC Status	OUT-14	1	1
	REV AGC Status	OUT-15	1	1
	Transport Stream Presence - Exc 1	J1-23	2	2
	Transport Stream Presence - Exc 1	J1-19	2	2
	Transport Stream Presence - Exc 2	J1-25	2	2
	Transport Stream Presence - Exc 2	J1-31	2	2

Location 1 = Transmitter Remote Control I/O Block on 46745490 Remote Control I/O Panel Assy

Location 2 = J1 on connector plate assembly at the top of exciter cabinet.

Output 1 = 24 V DC. Maximum current 0.5A = Active State

Maximum surge current = 1A for 10mS every 2 sec.

Output 2 = Contact closure between pins indicated. Open on fault

** These items are the minimum required per Thomson recommendation and/or FCC requirement

Remote Control, Indication and Measurements

DCX Transmitter Range :

HPA Fault Status - (All Status is per HPA)

Description	Connection	Location	Normal Indication given by ;
Fault Status:			
3 Phase voltage	J2-1	2	1
3 Phase voltage	J2-2	2	
Filament voltage	J2-3	2	1
Filament voltage	J2-4	2	
Full filament current	J2-6	2	1
Full filament current	J2-7	2	
Collector coolant flow	J2-10	2	1
Collector coolant flow	J2-11	2	
Collector temperature	J2-12	2	1
Collector temperature	J2-13	2	
Focus current	J2-14	2	1
Focus current	J2-15	2	
Ion current	J2-16	2	1
Ion current	J2-17	2	
Cabinet Interlocks	J2-18	2	1
Cabinet Interlocks	J2-19	2	
Ground probe interlock	J2-20	2	1
Ground probe interlock	J2-21	2	
Arc Detector # 1	J2-23	2	1
Arc Detector # 1	J2-24	2	
Arc Detector # 2	J2-25	2	1
Arc Detector # 2	J2-26	2	
Arc detector interlock	J2-27	2	1
Arc detector interlock	J2-28	2	
Beam current	J2-29	2	1
Beam current	J2-30	2	
Body current	J2-31	2	1
Body current	J2-32	2	
Cabinet airflow	J2-34	2	1
Cabinet airflow	J2-35	2	
Cavity airflow	J2-36	2	1
Cavity airflow	J2-37	2	

Location 1 = Transmitter Remote Control I/O Block on 46745490 Remote Control I/O Panel Assy

Location 2 = High power amplifier connector plate assembly

1 - Indication given by dry relay contact. Maximum current 500mADC, maximum voltage 110 V DC/AC, maximum 30W resistive. Closed Contacts = Normal Status

Open Contacts = Fault

Remote Control, Indication and Measurements

DCX Transmitter Range :

HPA Fault Status - (All Status is per HPA)

Description	Connection	Location	Normal Indication given by ;
Fault status:			
HV Controller/Soft start interlock	J3-1	2	1
HV Controller/Soft start interlock	J3-2	2	
Bias voltage	J3-3	2	1
Bias voltage	J3-4	2	
Bias current	J3-5	2	1
Bias current	J3-6	2	
Crowbar ready	J3-7	2	1
Crowbar ready	J3-8	2	
Crowbar triggered	J3-10	2	1
Crowbar triggered	J3-11	2	
Crowbar fired	J3-12	2	1
Crowbar fired	J3-13	2	
HV Beam On	J3-14	2	1
HV Beam On	J3-15	2	
Amplifier reverse power high	J3-16	2	1
Amplifier reverse power high	J3-17	2	
Amplifier forward power high	J3-18	2	1
Amplifier forward power high	J3-19	2	

Location 1 = Transmitter Remote Control I/O Block on 46745490 Remote Control I/O
Panel Assy

Location 2 = High power amplifier connector plate assembly

1 - Indication given by dry relay contact. Maximum current 500mADC, maximum voltage
110 V DC/AC, maximum 30 W resistive. Closed Contacts = Normal Status
Open Contacts = Fault

Remote Control, Indication and Measurements

DCX Transmitter Range :

Metering - (All HPA Metering Parameters are per HPA)

	Description	Connection	Location	Output
	Filament voltage (+)	J1-1	2	1
	Filament voltage	J1-2	2	
	Filament current (+)	J1-3	2	1
	Filament current	J1-4	2	
	Grid current (+)	J1-5	2	2
	Grid current	J1-6	2	
	Bias voltage (+)	J1-7	2	1
	Bias voltage	J1-8	2	
	Ion current (+)	J1-10	2	1
	Ion current	J1-11	2	
	Ion voltage (+)	J1-12	2	1
	Ion voltage	J1-13	2	
**	Beam current (+)	J1-14	2	1
**	Beam current	J1-15	2	
	Focus current (+)	J1-18	2	1
	Focus current	J1-19	2	
	Drive Power (+)	J1-23	2	1
	Drive Power	J1-24	2	
	Body current (+)	J1-25	2	1
	Body current	J1-26	2	
**	Beam voltage (+)	J1-27	2	1
**	Beam voltage	J1-28	2	
	Reverse power (+)	J1-29	2	1
	Reverse power	J1-30	2	
	Forward power (+)	J1-31	2	1
	Forward power	J1-32	2	

** These items are the minimum required per Thomson recommendation and/or FCC requirement.

(continued)

Remote Control, Indication and Measurements

DCX Transmitter Range :

Metering - (continued)

	Description	Connection	Location	Output
**	System forward (+)	J1-1	3	1
**	System forward (-)	J1-2	3	1
	System reverse (+)	J1-3	3	1
	System reverse (-)	J1-4	3	1
	Final Combiner Reject (+)	J1-5	3	1
	Final Combiner Reject (-)	J1-6	3	1
	V1 & V2 Combiner Reject (+)	J1-7	3	1
	V1 & V2 Combiner Reject (-)	J1-8	3	1
	V3 & V4 Combiner Reject (+)	J1-9	3	1
	V3 & V4 Combiner Reject (-)	J1-10	3	1
	V5 & V6 Combiner Reject (+)	J1-13	3	1
	V5 & V6 Combiner Reject (-)	J1-14	3	1
	Intermediate Combiner Reject (+)	J1-11	3	1
	Intermediate Combiner Reject (-)	J1-12	3	1

** These items are the minimum required per Thomson recommendation and/or FCC requirement

Location 1 = Transmitter Remote Control I/O Block on 46745490 Remote Control I/O Panel Assy

Location 2 = High power amplifier connector plate assembly

Location 3 = J1 on connector plate in exciter cabinet

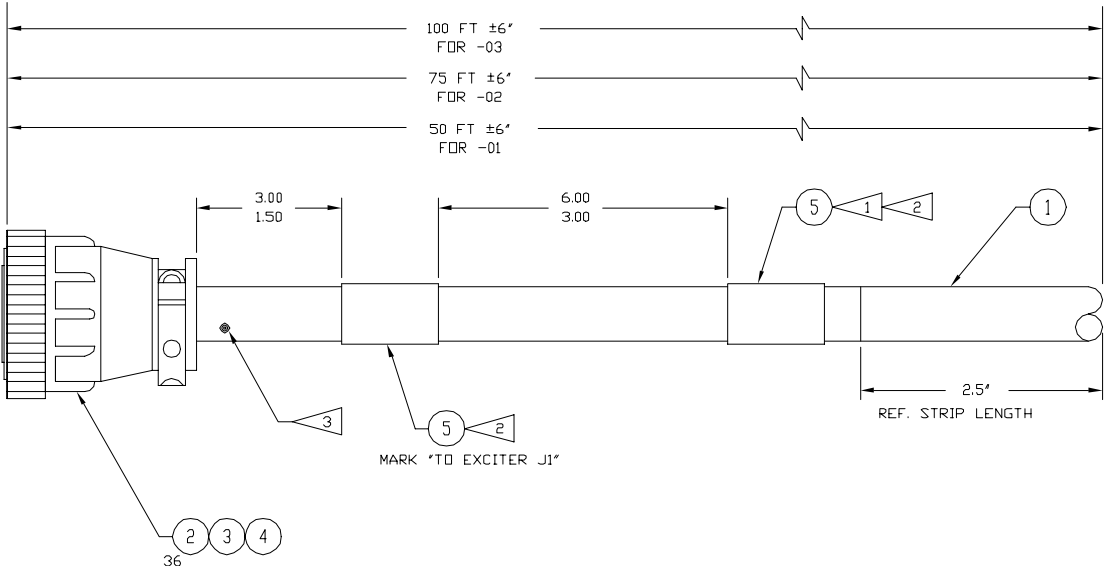
Output 1 = Approximately 5 VDC into high impedance or 1 mA for full scale deflection.

Output 2 = Approximately 5 VDC into high impedance or 1 mA for full scale deflection with 2.5 VDC, or .5 mA for "zero center".

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ENGINEERING RELEASE	3/9/01	SK

VERSIONS -01,-02 & -03

WIRE LIST							
WIRE NO.	P/L ITEM NO.	AWG, COLOR	FROM REF. DES.	TERM. POS	TO REF. DES.	TERM. POS	REMARKS
			EXC		REMOTE		2 TUBE OR MORE DCX EXCITER
1	RED PAIR 1		P1 - 1 -	2	- -		SYSTEM FORWARD + PAIR 1
2	BLK PAIR 1		P1 - 2 -	2	- -		SYSTEM FORWARD - PAIR 1
3	RED PAIR 2		P1 - 3 -	2	- -		SYSTEM REVERSE + PAIR 2
4	BLK PAIR 2		P1 - 4 -	2	- -		SYSTEM REVERSE - PAIR 2
5	RED PAIR 3		P1 - 5 -	2	- -		FINAL COMB. REJ. (+) PAIR 3
6	BLK PAIR 3		P1 - 6 -	2	- -		FINAL COMB. REJ. (-) PAIR 3
7	RED PAIR 4		P1 - 26 -	2	- -		RECORRECT LUT & ALE PAIR 4 EXC 1
8	BLK PAIR 4		P1 - 34 -	2	- -		RECORRECT LUT & ALE PAIR 4 EXC 2
9	RED PAIR 5		P1 - 18 -	2	- -		SAVE CORRECTION EXC 1 PAIR 5
10	BLK PAIR 5		P1 - 17 -	2	- -		APC DISABLE EXC 1 PAIR 5
11	RED PAIR 6		P1 - 15 -	2	- -		RAISE PWR EXC 1 PAIR 6
12	BLK PAIR 6		P1 - 16 -	2	- -		LOWER PWR EXC 1 PAIR 6
13	RED PAIR 7		P1 - 30 -	2	- -		SAVE CORRECTION PAIR 7 EXC 2
14	BLK PAIR 7		P1 - 29 -	2	- -		APC DISABLE EXC 2 PAIR 7
15	RED PAIR 8		P1 - 27 -	2	- -		RAISE PWR EXC 2 PAIR 8
16	BLK PAIR 8		P1 - 28 -	2	- -		LOWER PWR EXC 2 PAIR 8
17	RED PAIR 9		P1 - 36 -	2	- -		+24VDC OUTPUT PAIR 9
18	BLK PAIR 9		P1 - 37 -	2	- -		INTERLOCK IN +24V PAIR 9
19	RED PAIR 10		P1 - 7 -	2	- -		V1&V2 COMB REJ + PAIR 10
20	BLK PAIR 10		P1 - 8 -	2	- -		V1&V2 COMB REJ - PAIR 10
21	RED PAIR 11		P1 - 9 -	2	- -		V3&V4 COMB REJ + PAIR 11
22	BLK PAIR 11		P1 - 10 -	2	- -		V3&V4 COMB REJ - PAIR 11
23	RED PAIR 12		P1 - 20 -	2	- -		FLAT FILTER ALE PAIR 12 EXC 1
24	BLK PAIR 12		P1 - 32 -	2	- -		FLAT FILTER ALE PAIR 12 EXC 2
25	RED PAIR 13		P1 - 19 -	2	- -		COMMAND COMMON PAIR 13 EXC 1
26	BLK PAIR 13		P1 - 31 -	2	- -		COMMAND COMMON PAIR 13 EXC 2
27	RED PAIR 14		P1 - 23 -	2	- -		TRANSPORT STREAM PAIR 14 EXC 1
28	BLK PAIR 14		P1 - 25 -	2	- -		TRANSPORT STREAM PAIR 14 EXC 2
29	RED PAIR 15		P1 - 21 -	2	- -		ADAPTIVE CORRECTION PAIR 15 EXC 1
30	BLK PAIR 15		P1 - 33 -	2	- -		ADAPTIVE CORRECTION PAIR 15 EXC 2
31	RED PAIR 16		P1 - 22 -	2	- -		LOAD LINEAR LUT PAIR 16 EXC 1
32	BLK PAIR 16		P1 - 35 -	2	- -		LOAD LINEAR LUT PAIR 16 EXC 2
33	RED PAIR 17		P1 - 11 -	2	- -		INTERMEDIATE COMB REJ + PAIR 17
34	BLK PAIR 17		P1 - 12 -	2	- -		INTERMEDIATE COMB REJ - PAIR 17
35	RED PAIR 18		P1 - 13 -	2	- -		V5 + V6 COMB REJ + PAIR 18
36	BLK PAIR 18		P1 - 14 -	2	- -		V5 + V6 COMB REJ - PAIR 18

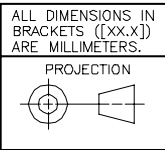


NOTES:

- 1 MARK P/N, VERSION, CURRENT REVISION LEVEL, & VENDOR I.D. (IF APPLICABLE)
- 2 NOMENCLATURE TO BE 12 PT HELVETICA MEDIUM. BLACK CHARACTERS ON WHITE TAPE.
- 3 CUT UNUSED CONDUCTORS AND DRAIN WIRES FLUSH WITH JACKET.

	2	2	2	5	605858-01	LABEL, PIN FEED 1" X 1.4"
	1	1	1	4	600088-01	CLAMP, CABLE SHELL SIZE 23
	1	1	1	3	600089-01	CONN, 37 PIN PLUG
	36	36	36	2	601252-01	SOCKET, CONTACT #66592-2
	100FT	75FT	50FT	1	606333-01	CABLE, PROCESS CTRL 19PR 22AWG
	-03	-02	-01	ITEM	PART NO.	DESCRIPTION

QTY/VERSION		PARTS LIST			
		MATERIAL	DRWN	T. BEAULIEU	3/7/01
		FINISH	CHKD	G. DeLCAMPO	3/8/01
		CAD FILE# 410984A1	HR	TB	
		MANUAL DWG#	ENGR	S. KALIS	3/9/01
			ENGR		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPD	S. WARNER	3/12/01
		FRACTIONS 1/32	APPD	VICTOR CRUZ	3/15/01
		2 PLACE DECIMALS .03 [.8]	REMOVE BURRS AND SHARP EDGES		
		3 PLACE DECIMALS .010 [2.5]	YES ☐ NO ☐		
		ANGLES 1/2"	SIZE	CODE IDENT	DRAWING NO
			D		410984
			SCALE	FULL	JOB NO:
					SHEET 1 OF 1



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	DCX ULTRA
NEXT ASS'Y.	USED ON
APPLICATION	

THOMCAST COMMUNICATIONS, Inc. Comark Division Southwick, Massachusetts

CABLE ASSEMBLY, REMOTE, DCX ULTRA EXCITER P1

D

C

B

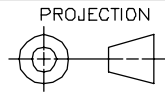
A

WIRE LIST									
WIRE NO.	P/L ITEM NO.	AWG, COLOR	FROM REF. DES.	TERM. POS.	TERM (P/L) ITEM NO.	TO REF. DES.	TERM. POS.	TERM (P/L) ITEM NO.	REMARKS
			HPA			REMOTE METERING			
1	1	RED PAIR 1	P1 - 1 -			- -			HEATER VOLTAGE + PAIR 1
2		BLK PAIR 1	P1 - 2 -			- -			HEATER VOLTAGE - PAIR 1
3		RED PAIR 2	P1 - 3 -			- -			HEATER CURRENT + PAIR 2
4		BLK PAIR 2	P1 - 4 -			- -			HEATER CURRENT - PAIR 2
5		RED PAIR 3	P1 - 5 -			- -			GRID CURRENT + PAIR 3
6		BLK PAIR 3	P1 - 6 -			- -			GRID CURRENT - PAIR 3
7		RED PAIR 4	P1 - 7 -			- -			BIAS VOLTAGE + PAIR 4
8		BLK PAIR 4	P1 - 8 -			- -			BIAS VOLTAGE - PAIR 4
9		RED PAIR 5	P1 - 10 -			- -			ION CURRENT + PAIR 5
10		BLK PAIR 5	P1 - 11 -			- -			ION CURRENT - PAIR 5
11		RED PAIR 6	P1 - 12 -			- -			ION VOLTAGE + PAIR 6
12		BLK PAIR 6	P1 - 13 -			- -			ION VOLTAGE - PAIR 6
13		RED PAIR 7	P1 - 14 -			- -			BEAM CURRENT + PAIR 7
14		BLK PAIR 7	P1 - 15 -			- -			BEAM CURRENT - PAIR 7
15		RED PAIR 8	P1 - 18 -			- -			FOCUS CURRENT + PAIR 8
16		BLK PAIR 8	P1 - 19 -			- -			FOCUS CURRENT - PAIR 8
17		RED PAIR 9	P1 - 23 -			- -			DRIVE POWER + PAIR 9
18		BLK PAIR 9	P1 - 24 -			- -			DRIVE POWER - PAIR 9
19		RED PAIR 10	P1 - 25 -			- -			BODY CURRENT + PAIR 10
20		BLK PAIR 10	P1 - 26 -			- -			BODY CURRENT - PAIR 10
21		RED PAIR 11	P1 - 27 -			- -			BEAM VOLTAGE + PAIR 11
22		BLK PAIR 11	P1 - 28 -			- -			BEAM VOLTAGE - PAIR 11
23		RED PAIR 12	P1 - 29 -			- -			REVERSE POWER + PAIR 12
24		BLK PAIR 12	P1 - 30 -			- -			REVERSE POWER - PAIR 12
25		RED PAIR 13	P1 - 31 -			- -			FORWARD POWER + PAIR 13
26		BLK PAIR 13	P1 - 32 -			- -			FORWARD POWER - PAIR 13
27		RED PAIR 14	P1 - 33 -			- -			AURAL FWD POWER+ PAIR 14
28		BLK PAIR 14	P1 - 34 -			- -			AURAL FWD POWER- PAIR 14
29		DRAIN	- -			GND AT TB			CABLE GND

4

4

ALL DIMENSIONS IN BRACKETS ([XX.X]) ARE MILLIMETERS.



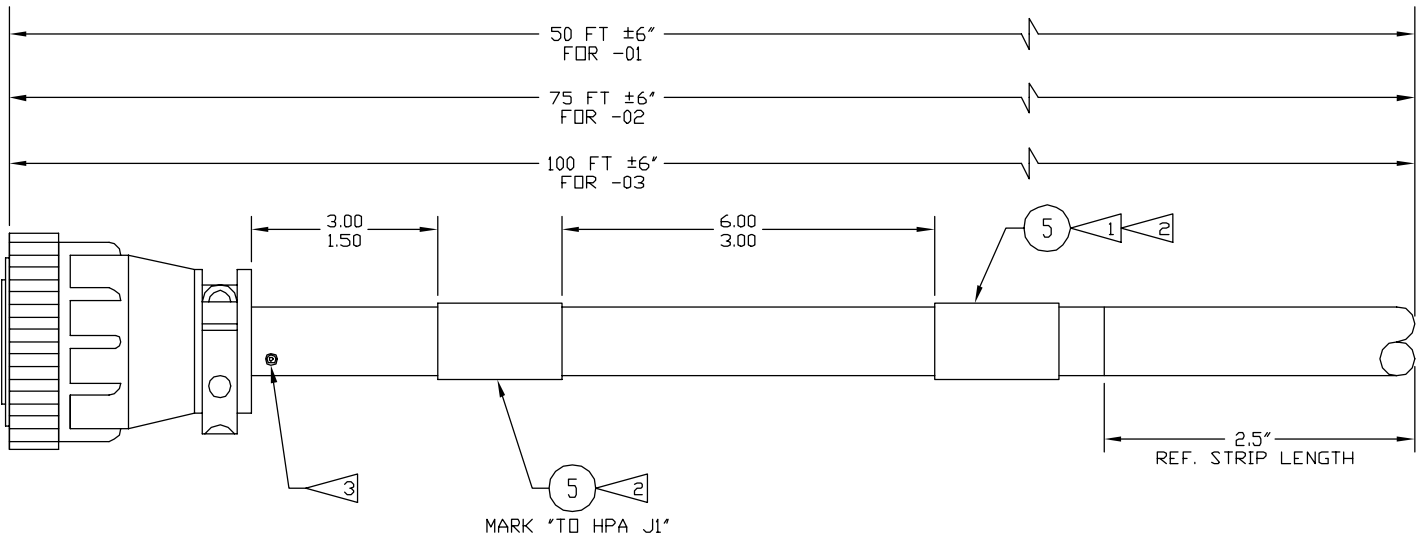
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		MATERIAL	SEE P/L	DRWN	T SHEAFFER	9/27/95
		FINISH	~	CHKD	G DeICAMPO	9/27/95
		CAD FILE#	407753F1	HR	TS	
		MANUAL DWG#	~	ENGR	E JUDD	10/2/95
				ENGR	W MICHEL	10/94/95
				APPD	HSB	10/4/95
				APPD	D JOHNSON	10/4/95
				REMOVE BURRS AND SHARP EDGES		
				YES ☒ NO ☐		
				SCALE FULL		
				JOB NO:		
				SHEET 1 OF 1		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ±
FRACTIONS 1/32
2 PLACE DECIMALS .03 [.8]
3 PLACE DECIMALS .010 [.25]
ANGLES 1/2°

2



NOTES:

- 1 MARK P/N, VERSION & CURRENT REVISION LEVEL.
- 2 NOMENCLATURE TO BE 12 PT HELVETICA MEDIUM. BLACK CHARACTERS ON WHITE TAPE.
- 3 CUT UNUSED CONDUCTORS AND DRAIN WIRES FLUSH WITH JACKET.
- 4 AURAL FORWARD POWER METERING IS AVAILABLE AT J1 ON CXIC SINGLE TUBE SYSTEMS ONLY. IT IS AVAILABLE OFF THE EXCITER CABINET ON ALL OTHER SYSTEMS. (NOT APPLICABLE ON DCX SYSTEMS)

2	2	2	5	605858-01	LABEL, PIN FEED 1" X 1.4"
1	1	1	4	600088-01	CLAMP, CABLE SHELL SIZE 23
1	1	1	3	600089-01	CONN, 37 PIN PLUG
28	28	28	2	601252-01	SOCKET, CONTACT #66592-2
100FT	75FT	50FT	1	606333-01	CABLE, PROCESS CTRL 19PR 22AWG
-03	-02	-01	ITEM	PART NO.	DESCRIPTION
QTY/VERSION			PARTS LIST		

DRWN	T SHEAFFER	9/27/95
CHKD	G DeICAMPO	9/27/95
ENGR	E JUDD	10/2/95
ENGR	W MICHEL	10/94/95
APPD	HSB	10/4/95
APPD	D JOHNSON	10/4/95
REMOVE BURRS AND SHARP EDGES		
YES ☒ NO ☐		



SOUTHWICK, MASSACHUSETTS

CABLE ASSEMBLY,
REMOTE, HPA P1

SIZE	CODE IDENT	DRAWING NO	REV.
C		407753	F
SCALE FULL		JOB NO:	SHEET 1 OF 1

F

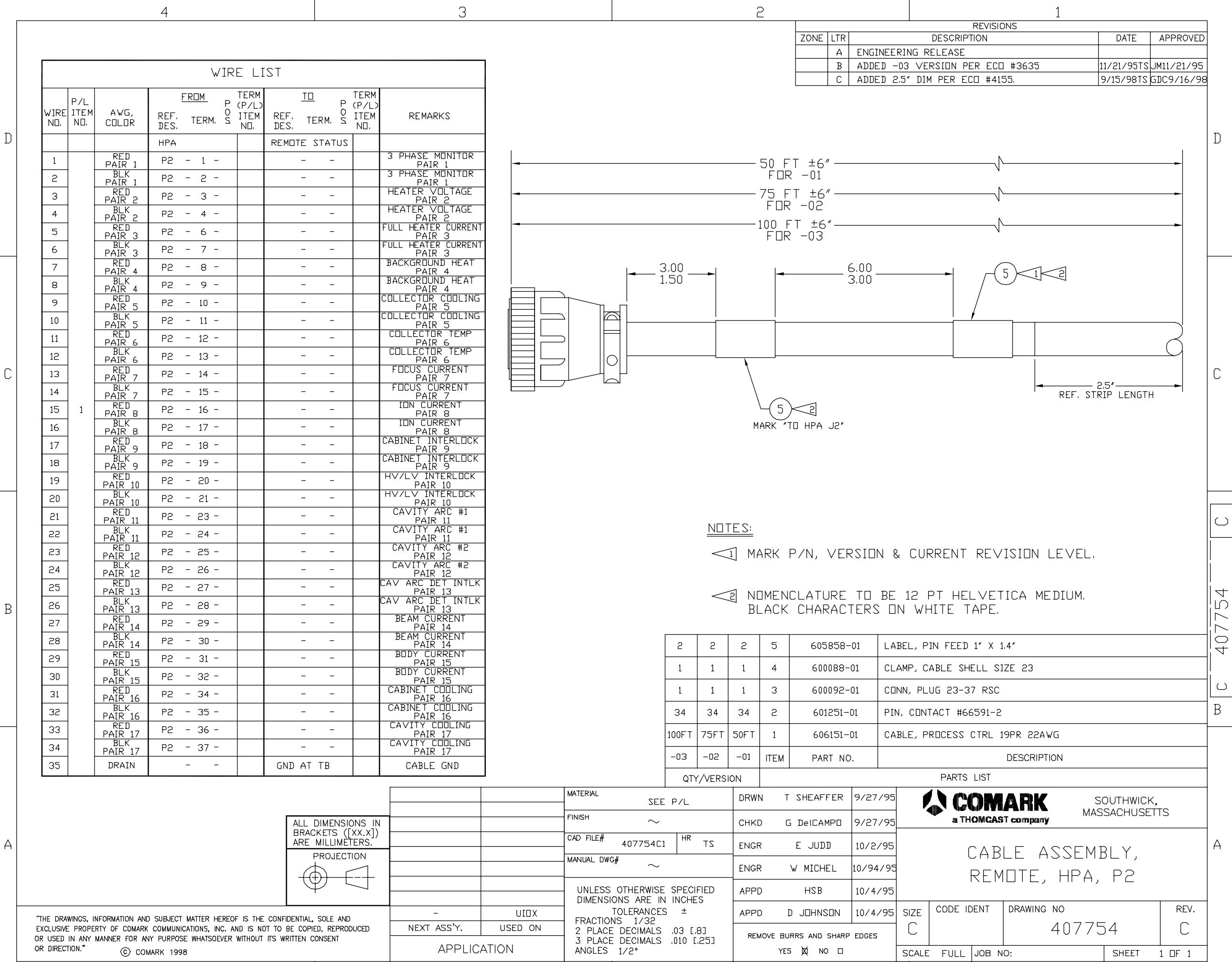
C 407753

B

A

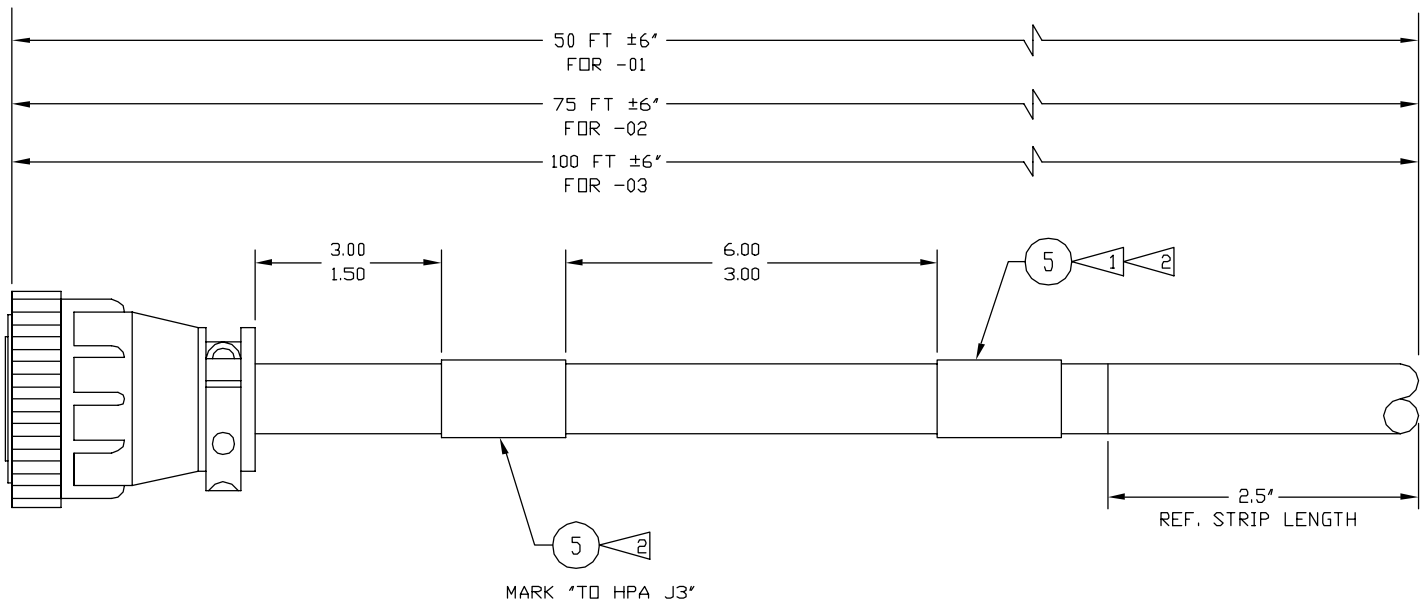
D

C



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ENGINEERING RELEASE		
	B	ADDED -03 VERSION PER ECD #3635	11/21/95TS	JM11/21/95
	C	DELETED WIRES 21 & 22. ECD #3965	8/4/97TS	GDC8/15/97
	D	ADDED 2.5' DIM PER ECD #4155.	9/15/98TS	GDC9/16/98
	E	REVISED PER ECD # 4377	11/11/99BF	JM11/11/99

WIRE LIST									
WIRE NO.	P/L ITEM NO.	AWG, COLOR	FROM		TERM (P/L) ITEM NO.	TO		TERM (P/L) ITEM NO.	REMARKS
			REF. DES.	TERM.		REF. DES.	TERM.		
			HPA			REMOTE			
1	1	RED PAIR 1	P3	- 1 -		-	-		HV CONTROLLER PAIR 1
2		BLK PAIR 1	P3	- 2 -		-	-		HV CONTROLLER PAIR 1
3		RED PAIR 2	P3	- 3 -		-	-		BIAS VOLTAGE PAIR 2
4		BLK PAIR 2	P3	- 4 -		-	-		BIAS VOLTAGE PAIR 2
5		RED PAIR 3	P3	- 5 -		-	-		BIAS CURRENT PAIR 3
6		BLK PAIR 3	P3	- 6 -		-	-		BIAS CURRENT PAIR 3
7		RED PAIR 4	P3	- 7 -		-	-		CROWBAR READY PAIR 4
8		BLK PAIR 4	P3	- 8 -		-	-		CROWBAR READY PAIR 4
9		RED PAIR 5	P3	- 10 -		-	-		CROWBAR TRIGGERED PAIR 5
10		BLK PAIR 5	P3	- 11 -		-	-		CROWBAR TRIGGERED PAIR 5
11		RED PAIR 6	P3	- 12 -		-	-		CROWBAR FIRED PAIR 6
12		BLK PAIR 6	P3	- 13 -		-	-		CROWBAR FIRED PAIR 6
13		RED PAIR 7	P3	- 14 -		-	-		HV BEAM ON PAIR 7
14		BLK PAIR 7	P3	- 15 -		-	-		HV BEAM ON PAIR 7
15		RED PAIR 8	P3	- 16 -		-	-		AMP REVERSE PWR PAIR 8
16		BLK PAIR 8	P3	- 17 -		-	-		AMP REVERSE PWR PAIR 8
17		RED PAIR 9	P3	- 18 -		-	-		AMP FORWARD PWR PAIR 9
18		BLK PAIR 9	P3	- 19 -		-	-		AMP FORWARD PWR PAIR 9
19		RED PAIR 10	P3	- 23 -		-	-		HV BEAM ON/OFF + PAIR 10
20		BLK PAIR 10	P3	- 24 -		-	-		HV BEAM ON/OFF PAIR 10
21		RED PAIR 11	P3	- 20 -		-	-		RF SYSTEM INTERLOCK PAIR 11
22		BLK PAIR 11	P3	- 21 -		-	-		RF SYSTEM INTERLOCK PAIR 11
23		RED PAIR 12	P3	- 27 -		-	-		HV CONNECT/ISOLATE PAIR 12
24		BLK PAIR 12	P3	- 28 -		-	-		HV CONNECT/ISOLATE PAIR 12
25			DRAIN	-	-		GND AT TB		



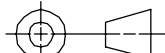
NOTES:

1 MARK P/N, VERSION & CURRENT REVISION LEVEL.

2 NOMENCLATURE TO BE 12 PT HELVETICA MEDIUM.
BLACK CHARACTERS ON WHITE TAPE.

3. P3 1-19 ARE STATUS, 23-28 ARE CONTROL.

2	2	2	5	605858-01	LABEL, PIN FEED 1" X 1.4"
1	1	1	4	600088-01	CLAMP, CABLE SHELL SIZE 23
1	1	1	3	600092-01	CONN, PLUG 23-37 RSC
22	22	22	2	601251-01	PIN, CONTACT #66591-2
100FT	75FT	50FT	1	606150-01	CABLE, PROCESS CTRL 15PR 22AWG
-03	-02	-01	ITEM	PART NO.	DESCRIPTION
QTY/VERSION			PARTS LIST		

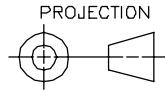
ALL DIMENSIONS IN BRACKETS ([xx.x]) ARE MILLIMETERS.		PROJECTION 		MATERIAL		DRWN		T SHEAFFER		9/27/95		 COMARK a THOMCAST company		SOUTHWICK, MASSACHUSETTS							
				SEE P/L		CHKD		G DeICAMPO		9/27/95											
				FINISH		~		CHKD		G DeICAMPO		CABLE ASSEMBLY, REMOTE, HPA, P3									
				CAD FILE#		407755E1		HR		TS								ENGR		E JUDD	
				MANUAL DWG#		~		ENGR		W MICHEL		10/94/95									
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPD		HSB		10/4/95											
IDENTICAL, SOLE AND BE COPIED, REPRODUCED WRITTEN CONSENT		- NEXT ASS'Y.		C10X		TOLERANCES ±		APPD		D JOHNSON		10/4/95		SIZE		CODE IDENT		DRAWING NO		REV.	
				U10X		FRACTIONS 1/32		REMOVE BURRS AND SHARP EDGES		C				407755		E					
		USED ON		APPLICATION		2 PLACE DECIMALS .03 [.8]		YES ☒ NO ☐				SCALE		FULL		JOB NO:		SHEET		1 OF 1	
				ANGLES 1/2°																	

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ALL DIMENSIONS IN
BRACKETS ([XX.X])
ARE MILLIMETERS.



D

D

C

C

B

L

C 407755

B

A

A



Thomson Inc.
104 Feeding Hills Road
Southwick MA 01077 U.S.A.