Table 4-1 MDF Cable Connections

MDF Pin No.	Circuit No.	Running Cable	Station Cable	ESI(8)	SLI(8)	SLI(4)	OPX(2)	BIU(2)	BSU(2)	COI/ COID(8)	COI/ COID(4)	DID(4)	BRI(4)	PRI(1)	ECR	DPH	TLI(2)
First ETU																	
26	1	WH–BL	BK	T	T	T	T	-Rx-1	-Rx-1	T	T	T	+Rx-1	+Rx	EP Zone 3	DP1	GND
1		BL–WH	YL	R	R	R	R	+Rx-1	+Rx-1	R	R	R	-Rx-1	-Rx			
27	2	WH–OR	BK	T	T	T	T	-Tx-1	-Tx-1	T	T	T	+Tx-1	+Tx	EP Zone 2	DP2	E-1
2		OR–WH	YL	R	R	R	R	+Tx-1	+Tx-1	R	R	R	-Tx-1	-Tx			M-1
28	3	WH–GN	BK	T	T	T				T	T	T	+Rx-2		EP Zone 1	DP3	T-1
3		GN–WH	YL	R	R	R				R	R	R	-Rx-2				R-1
29	4	WH–BR	BK	T	T	T				T	T	T	+Tx-2		Night Chime	DP4	T1-1
4		BR–WH	YL	R	R	R				R	R	R	-Tx-2				R1-1
30	5	WH–SL	BK	T	T			-Rx-2	-Rx-2	T			+Rx-3		External Tone Ringer 4	DLR1	GND
5		SL–WH	YL	R	R			+Rx-2	+Rx-2	R			-Rx-3				
31	6	RD—BL	BK	T	T			-Tx-2	-Tx-2	T			+Tx-3		External Tone Ringer 3	DLR2	E-2
6		BL–RD	YL	R	R			+Tx-2	+Tx-2	R			-Tx-3				M-2
32	7	RD-OR	BK	T	T					T			-Rx-4		External Tone Ringer 2	DLR3	T-2
7		OR–RD	YL	R	R					R			-Rx-4				R-2
33	8	RD–GN	BK	T	T					T			+Tx-r		External Tone Ringer 1	DLR4	T1-2
8		GN–RD	YL	R	R					R			-Tx-4				R1-2
Second ETU																	
34	1	RD–BR	BK	T	T	T	T	-Rx-1	-Rx-1	T	T	T	+Rx-1	+Rx	EP Zone 3	DP1	GND
9		BR–RD	YL	R	R	R	R	+Rx-1	+Rx-1	R	R	R	-Rx-1	-Rx			
35	2	RD–SL	BK	T	T	T	T	-Tx-1	-Tx-1	T	T	T	+Tx-1	+Tx	EP Zone 2	DP2	E-1
10		SL–RD	YL	R	R	R	R	+Tx-1	+Tx-1	R	R	R	-Tx-1	-Tx			M-1
36	3	BK–BL	BK	T	T	T				T	T	T	+Rx-2		EP Zone 1	DP3	T-1
11		BL–BK	YL	R	R	R				R	R	R	-Rx-2				R-1
37	4	BK–OR	BK	T	T	T				T	T	T	+Tx-2		Night Chime	DP4	T1-1
12		OR–BK	YL	R	R	R				R	R	R	-Tx-2				R1-1
38	5	BK–GN	BK	T	T			-Rx-2	-Rx-2	T			+Rx-3		External Tone Ringer 4	DLR1	GND
13		GN–BK	YL	R	R			+Rx-2	+Rx-2	R			-Rx-3				
39	6	BK–BR	BK	T	T			-Tx-2	-Tx-2	T			+Tx-3		External Tone Ringer 3	DLR2	E-2
14		BR–BK	YL	R	R			+Tx-2	+Tx-2	R			-Tx-3				M-2
40	7	BK–SL	BK	T	T					T			-Rx-4		External Tone Ringer 2	DLR3	T-2
15		SL–BK	YL	R	R					R			-Rx-4				R-2
41	8	YL–BL	BK	T	T					T			+Tx-4		External Tone Ringer 1	DLR4	T1-2
16		BL–YL	YL	R	R					R			-Tx-4				R1-2

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Table 4-1 MDF Cable Connections (Continued)

MDF Pin No.	Circuit No.	Running Cable	Station Cable	ESI(8)	SLI(8)	SLI(4)	OPX(2)	BIU(2)	BSU(2)	COI/ COID(8)	COI/ COID(4)	DID(4)	BRI(4)	PRI(1)	ECR	DPH	TLI(2)
Third ETU																	
42	1	YL–OR	BK	T	T	T	T	-Rx-1	-Rx-1	T	T	T	+Rx-1	+Rx	EP Zone 3	DP1	GND
17		OR–YL	YL	R	R	R	R	+Rx-1	+Rx-1	R	R	R	-Rx-1	-Rx			
43	2	YL–GN	BK	T	T	T	T	-Tx-1	-Tx-1	T	T	T	+Tx-1	+Tx	EP Zone 2	DP2	E-1
18		GN–YL	YL	R	R	R	R	+Tx-1	+Tx-1	R	R	R	-Tx-1	-Tx			M-1
44	3	YL–BR	BK	T	T	T				T	T	T	+Rx-2		EP Zone 1	DP3	T-1
19		BR–YL	YL	R	R	R				R	R	R	-Rx-2				R-1
45	4	YL–SL	BK	T	T	T				T	T	T	+Tx-2		Night Chime	DP4	T1-1
20		SL–YL	YL	R	R	R				R	R	R	-Tx-2				R1-1
46	5	VI–BL	Bk	T	T			-Rx-2	-Rx-2	T			+Rx-3		External Tone Ringer 4	DLR1	GND
21		BL–VI	YL	R	R			+Rx-2	+Rx-2	R			-Rx-3				
47	6	VI–OR	BK	T	T			-Tx-2	-Tx-2	T			+Tx-3		External Tone Ringer 3	DLR2	E-2
22		OR–VI	YL	R	R			+Tx-2	+Tx-2	R			-Tx-3				M-2
48	7	VI–GN	BK	T	T					T			-Rx-4		External Tone Ringer 2	DLR3	T-2
23		GN–VI	YL	R	R					R			-Rx-4				R-2
49	8	VI–BR	BK	T	T					T			+Tx-4		External Tone Ringer 1	DLR4	T1-2
24		BR–VI	YL	R	R					R			-Tx-4				R1-2
50																	
25																	

- PFT circuits are only connected to AMP3.
- AMP1 is connected to S1, S2, and S3.
- AMP2 is connected to S4, S5, and S6.
- AMP3 is connected to S7, S8 and PFT.

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Table 4-2 MDF PFT Connections (AMP3 Third ETU only)

MDF Pin Number	PFT Connection	
42		
17		
43		
18		
44		
19		
45	PFT2 - CO (Tip)	Power Failure Transfer Relay 2
20	PFT2 - CO (Ring)	
46	PFT2 - SLI (Tip)	
21	PFT2 - SLI (Ring)	
47	PFT2 - SLT (Tip)	
22	PFT2 - SLT (Ring)	
48	PFT3 - CO (Tip)	Power Failure Transfer Relay 3
23	PFT3 - CO (Ring)	
49	PFT3 - SLI (Tip)	
24	PFT3 - SLI (Tip)	
50	PFT3 - SLT (Tip)	
25	PFT3 - SLT (Tip)	

- PFT circuits are only connect to AMP3
- AMP1 is connected to S1, S2 and S3
- AMP2 is connected to S4, S5 and S6
- AMP3 is connected to S7, S8 and PFT

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Table 4-3 MDF Cable Connections - Xen Axis

	MDF Pin No.	Circuit No.	Running Cable	Station Cable	ESI(8)	SLI(8)	SLI(4)	OPX(2)	BSU(2)	COI(8)	COID(8)	COI(4)	COID(4)	DID(4)	TLI(2)	BRI(4)	ECR	DPH	PRI(1)	BIU(2)
	Amphenol 1																			
SLOT 1	26	1	WH–BL	BK	T															
	1		BL–WH	YL	R															
	27	2	WH–OR	BK	T															
	2		OR–WH	YL	R															
	28	3	WH–GN	BK	T															
	3		GN–WH	YL	R															
	29	4	WH–BR	BK	T															
	4		BR–WH	YL	R															
	30	5	WH–SL	BK	T															
	5		SL–WH	YL	R															
	31	6	RD—BL	BK	T															
	6		BL–RD	YL	R															
	32	7	RD-OR	BK	T															
	7		OR–RD	YL	R															
	33	8	RD–GN	BK	T															
	8		GN–RD	YL	R															
SLOT 3	34	1	RD–BR	BK	T	T	T	T	-RX-1	T	T	T	T	T	GND	+Rx1	EP Zone 3	DP1		
	9		BR–RD	YL	R	R	R	R	+RX-1	R	R	R	R	R		-Rx1				
	35	2	RD–SL	BK	T	T	T	T	-TX-1	T	T	T	T	T	E-1	+Tx1	EP Zone 2	DP2		
	10		SL–RD	YL	R	R	R	R	+TX-1	R	R	R	R	R	M-1	-Tx1				
	36	3	BK–BL	BK	T	T	T			T	T	T	T	T	T-1	+Rx2	EP Zone 1	DP3		
	11		BL–BK	YL	R	R	R			R	R	R	R	R	R-1	-Rx2				
	37	4	BK–OR	BK	T	T	T			T	T	T	T	T	T1-1	+Tx2	Night Chime	DP4		
	12		OR–BK	YL	R	R	R			R	R	R	R	R	R1-1	-Tx2				
	38	5	BK–GN	BK	T	T			-RX-2	T	T				GND	+Rx3	External Tone Ringer 4	DLR1		
	13		GN–BK	YL	R	R			+RX-2	R	R					-Rx3				
	39	6	BK–BR	BK	T	T			-TX-2	T	T				E-2	+Tx3	External Tone Ringer 3	DLR2		
	14		BR–BK	YL	R	R			+TX-2	R	R				M-2	-Tx3				
	40	7	BK–SL	BK	T	T				T	T				T-2	-Rx4	External Tone Ringer 2	DLR3		
	15		SL–BK	YL	R	R				R	R				R-2	-Rx4				
	41	8	YL–BL	BK	T	T				T	T				T1-2	+Tx4	External Tone Ringer 1	DLR4		
	16		BL–YL	YL	R	R				R	R				R1-2	-Tx4				

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Table 4-3 MDF Cable Connections - Xen Axis (Continued)

	MDF Pin No.	Circuit No.	Running Cable	Station Cable	ESI(8)	SLI(8)	SLI(4)	OPX(2)	BSU(2)	COI(8)	COID(8)	COI(4)	COID(4)	DID(4)	TLI(2)	BRI(4)	ECR	DPH	PRI(1)	BIU(2)
SLOT 4	42	1	YL–OR	BK	T	T	T	T	-RX-1	T	T	T	T	T	GND	+Rx1	EP Zone 3	DP 1	+Rx	
	17		OR–YL	YL	R	R	R	R	+RX-1	R	R	R	R	R		-Rx1			-Rx	
	43	2	YL–GN	BK	T	T	T	T	-TX-1	T	T	T	T	T	E-1	+Tx1	EP Zone 2	DP 2	+Tx	
	18		GN–YL	YL	R	R	R	R	+TX-1	R	R	R	R	R	M-1	-Tx1			-Tx	
	44	3	YL–BR	BK	T	T	T			T	T	T	T	T	T-1	+Rx2	EP Zone 1	DP 3		
	19		BR–YL	YL	R	R	R			R	R	R	R	R	R-1	-Rx2				
	45	4	YL–SL	BK	T	T	T			T	T	T	T	T	T1-1	+Tx2	Night Chime	DP 4		
	20		SL–YL	YL	R	R	R			R	R	R	R	R	R1-1	-Tx2				
	46	5	VI–BL	Bk	T	T			-RX-2	T	T				GND	+Rx-3	External Tone Ringer 4	DLR1		
	21		BL–VI	YL	R	R			+RX-2	R	R					-Rx-3				
	47	6	VI–OR	BK	T	T			-TX-2	T	T				E-2	+Tx-3	External Tone Ringer 3	DLR2		
	22		OR–VI	YL	R	R			+TX-2	R	R				M-2	-Tx-3				
	48	7	VI–GN	BK	T	T				T	T				T-2	-Rx-4	External Tone Ringer 2	DLR3		
	23		GN–VI	YL	R	R				R	R				R-2	-Rx-4				
	49	8	VI–BR	BK	T	T				T	T				T1-2	+Tx-4	External Tone Ringer 1	DLR4		
	24		BR–VI	YL	R	R				R	R				R1-2	-Tx-4				
	50	TO CO MDF FOR PFT																		
	25																			
	Amphenol 2																			
SLOT 5	26	1	WH–BL	BK	T	T	T	T	-RX-1	T		T		T	GND		EP Zone 3	DP1		
	1		BL–WH	YL	R	R	R	R	+RX-1	R		R		R						
	27	2	WH–OR	BK	T	T	T	T	-TX-1	T		T		T	E-1		EP Zone 2	DP2		
	2		OR–WH	YL	R	R	R	R	+TX-1	R		R		R	M-1					
	28	3	WH–GN	BK	T	T	T			T		T		T	T-1		EP Zone 1	DP3		
	3		GN–WH	YL	R	R	R			R		R		R	R-1					
	29	4	WH–BR	BK	T	T	T			T		T		T	T1-1		Night Chime	DP4		
	4		BR–WH	YL	R	R	R			R		R		R	R1-1					
	30	5	WH–SL	BK	T	T			-RX-2	T					GND		External Tone Ringer 4	DLR1		
	5		SL–WH	YL	R	R			+RX-2	R										
	31	6	RD—BL	BK	T	T			-TX-2	T					E-2		External Tone Ringer 3	DLR2		
	6		BL–RD	YL	R	R			+TX-2	R					M-2					
	32	7	RD-OR	BK	T	T				T					T-2		External Tone Ringer 2	DLR3		
	7		OR–RD	YL	R	R				R					R-2					
	33	9	RD–GN	BK	T	T				T					T1-2		External Tone Ringer 1	DLR4		
	8		GN–RD	YL	R	R				R					R1-2					

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Table 4-3 MDF Cable Connections - Xen Axis (Continued)

	MDF Pin No.	Circuit No.	Running Cable	Station Cable	ESI(8)	SLI(8)	SLI(4)	OPX(2)	BSU(2)	COI(8)	COID(8)	COI(4)	COID(4)	DID(4)	TLI(2)	BRI(4)	ECR	DPH	PRI(1)	BIU(2)
SLOT 6	34	1	RD–BR	BK	T	T	T	T	-RX-1	T		T		T	GND		EP Zone 3	DP1		-Rx-1
	9		BR–RD	YL	R	R	R	R	+RX-1	R		R		R						+Rx-1
	35	2	RD–SL	BK	T	T	T	T	-TX-1	T		T		T	E-1		EP Zone 2	DP2		-Tx-1
	10		SL–RD	YL	R	R	R	R	+TX-1	R		R		R	M-1					+Tx-1
	36	3	BK–BL	BK	T	T	T			T		T		T	T-1		EP Zone 1	DP3		
	11		BL–BK	YL	R	R	R			R		R		R	R-1					
	37	4	BK–OR	BK	T	T	T			T		T		T	T1-1		Night Chime	DP4		
	12		OR–BK	YL	R	R	R			R		R		R	R1-1					
	38	5	BK–GN	BK	T	T			-RX-2	T					GND		External Tone Ringer 4	DLR1		-Rx-2
	13		GN–BK	YL	R	R			+RX-2	R										+Rx-2
	39	6	BK–BR	BK	T	T			-TX-2	T					E-2		External Tone Ringer 3	DLR2		-Tx-2
	14		BR–BK	YL	R	R			+TX-2	R					M-2					+Tx-2
	40	7	BK–SL	BK	T	T				T					T-2		External Tone Ringer 2	DLR3		
	15		SL–BK	YL	R	R				R					R-2					
	41	8	YL–BL	BK	T	T				T					T1-2		External Tone Ringer 1	DLR4		
	16		BL–YL	YL	R	R				R					R1-2					
SLOT 7	42	1	YL–OR	BK	T	T	T	T	-RX-1	T		T		T	GND		EP Zone 3			-Rx-1
	17		OR–YL	YL	R	R	R	R	+RX-1	R		R		R						+Rx-1
	43	2	YL–GN	BK	T	T	T	T	-TX-1	T		T		T	E-1		EP Zone 2			-Tx-1
	18		GN–YL	YL	R	R	R	R	+TX-1	R		R		R	M-1					+Tx-1
	44	3	YL–BR	BK	T	T	T			T		T		T	T-1		EP Zone 1			
	19		BR–YL	YL	R	R	R			R		R		R	R-1					
	45	4	YL–SL	BK	T	T	T			T		T		T	T1-1		Night Chime			
	20		SL–YL	YL	R	R	R			R		R		R	R1-1					
	46	5	VI–BL	BK	T	T			-RX-2	T					GND		External Tone Ringer 4			-Rx-2
	21		BL–VI	YL	R	R			+RX-2	R										+Rx-2
	47	6	VI–OR	BK	T	T			-TX-2	T					E-2		External Tone Ringer 3			-Tx-2
	22		OR–VI	YL	R	R			+TX-2	R					M-2					+Tx-2
	48	7	VI–GN	BK	T	T				T					T-2		External Tone Ringer 2			
	23		GN–VI	YL	R	R				R					R-2					
	49	8	VI–BR	BK	T	T				T					T1-2		External Tone Ringer 1			
	24		BR–VI	YL	R	R				R					R1-2					
	50	EXTERNAL PAGE OUTPUT																		
	25																			

☞ Slot 1 is ESI(8)-U13 built-in on the MBD-U13 Unit.

☞ Slot 2 does not have MDF connections. This slot can be used for VRS, PBR, VDH, MIFM, CNF, VMS and FMS.

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2.5 Power Failure Transfer

The Power Failure Transfer relay is located in the KSU. When selecting a Single Line Telephone for power failure transfer, make sure it matches the CO line dialling type (10 pps, 20 pps, or DTMF) where it is connected. Refer to Figure 4-1 Xen Master - Power Failure Transfer Connection2.6 Fax CO Branch Connectionand Refer to Figure 4-2 Xen Axis - Power Failure Transfer Connection.

Note: Note that the relay is shown with the power ON.

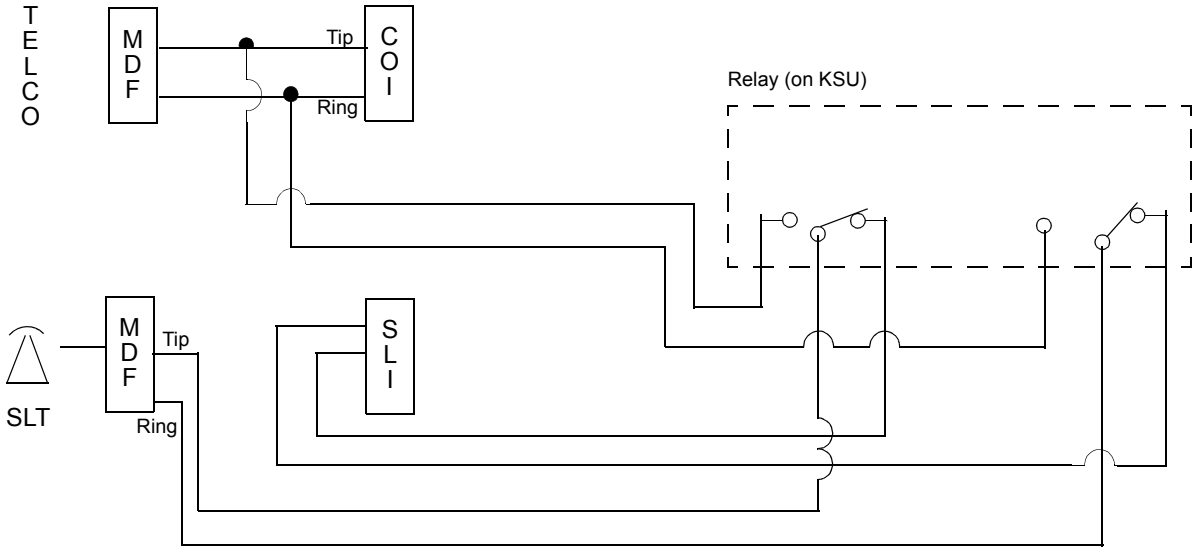

Figure 4-1 Xen Master - Power Failure Transfer Connection

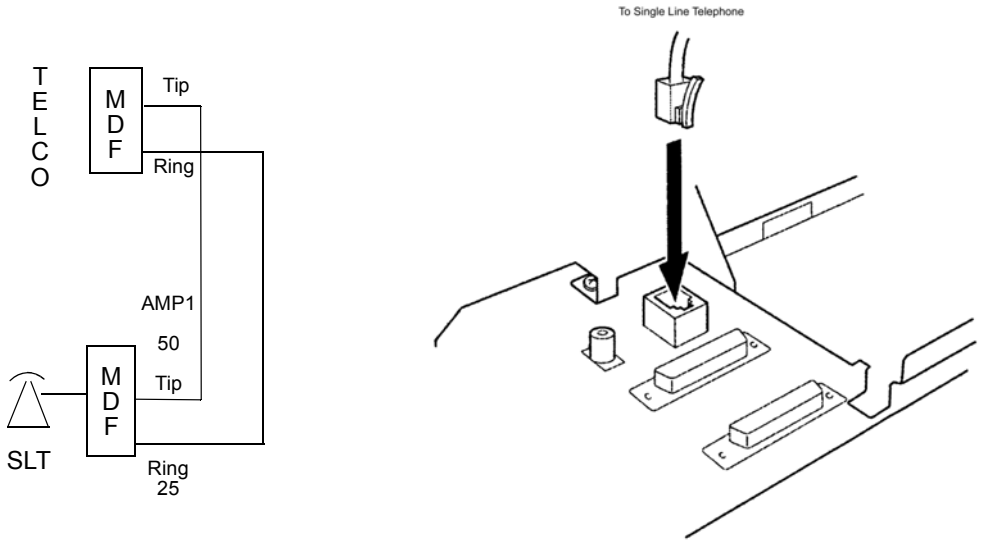

Figure 4-2 Xen Axis - Power Failure Transfer Connection

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