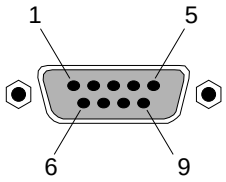
B Pinouts and Custom Cables

This appendix provides detailed information on cables that are used with OmniAccess 408. Information includes illustrations, descriptions, and pin diagrams. Although these custom cables are available from Alcatel, you can build them using the information contained in this chapter.

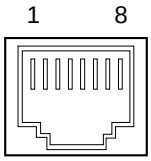
OmniAccess 408 Pinouts

Console Management Port (DB-9 Connector)



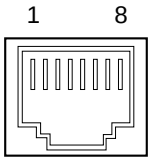
Pin Number	Standard Signal Name
1, 4, 6, 7, 8, 9	Not Used
3	TD (from connected console)
2	RD (to connected console)
5	Ground

Ethernet Port (RJ-45 Connector)



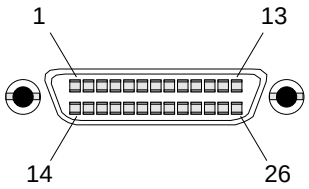
Pin Number	Standard Signal Name
1	RD +
2	RD –
4, 5, 7, 8	Not Used
3	TD +
6	TD –

T1/E1 Port (RJ-48C Connector)



Pin Number	Standard Signal Name
1	Rx_Ring
2	Rx_Tip
3, 6	Chassis GND
4	Tx_Ring
5	Tx_Tip
7, 8	Not Used

Circuit Emulation Services (CES) Universal Serial Port



Refer to the table on page 1-4 for USP pinout details.

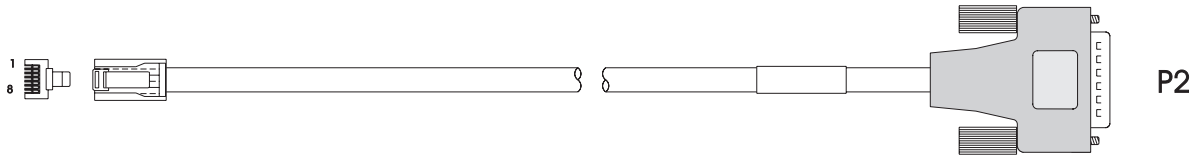
CES Universal Serial Port Specifications							
		Alcatel SPI		EIA-530		RS-449	
Generic Signal Name	Source	Mnemonic	Pin	Mnemonic	Pin	Mnemonic	Pin
Shield	--	Shield	1	--	1	--	1
Signal Ground	--	AB	7	AB	7	SG	19
Transmitted Data	DTE	TD(A)	2	BA(A)	2	SD(A)	4
		TD(B)	14	BA(B)	14	SD(B)	22
Received Data	DCE	RD(A)	3	BB(A)	3	RD(A)	6
		RD(B)	16	BB(B)	16	RD(B)	24
Transmit Clock	DCE	TC(A)	15	DB(A)	15	ST(A)	5
		TC(B)	12	DB(B)	12	ST(B)	23
Receive Clock	DCE	TC(A)	17	DD(A)	17	RT(A)	8
		TC(B)	9	DD(B)	9	RT(B)	26
Ext. Transmit Clock	DTE	XC(A)	24	DA(A)	24	TT(A)	17
		XC(B)	11	DA(B)	11	TT(B)	35
Request To Send	DTE	RS(A)	4	CA(A)	4	RS(A)	7
		RS(B)	19	CA(B)	19	RS(B)	25
Clear To Send	DCE	CS(A)	5	CB(A)	5	CS(A)	9
		CS(B)	13	CB(B)	13	CS(B)	27
Data Set Ready	DCE	DR(A)	6	CC(A)	6	DM(A)	11
		DR(B)	22	CC(B)	22	DM(B)	29
Data Terminal Ready	DTE	TR(A)	20	CD(A)	20	TR(A)	12
		TR(B)	23	CD(B)	23	TR(B)	30
Data Carrier Detect	DCE	CD(A)	8	CF(A)	8	RR(A)	13
		CD(B)	10	CF(B)	10	RR(B)	31
Local Loopback	DTE	LL	18	LL	18	LL	10
Remote Loopback	DTE	RL	21	RL	21	RL	14
Ring Indicator	DCE	RI/TM	25	--	--	--	--
Test Mode	DCE	RI/TM	25	TM	25	TM	18
Cable Type 4	--	CTP4	18		n/c		n/c
Cable Type 3	--	CTP3	26		n/c		n/c
Cable Type 2	--	CTP2	13				
Cable Type 1	--	CTP1	22				
Cable Type 0	--	CTP0	10				

continued on next page...

CES Universal Serial Port Specifications, continued							
		X.21/X.26		V.35		RS232	
Generic Signal Name	Source	Mnemonic	Pin	Mnemonic	Pin	Mnemonic	Pin
Shield	--	--	1	--	A	--	1
Signal Ground	--	G	8	102	B	AB	7
Transmitted Data	DTE	T(A) T(B)	2 9	103(A) 103(B)	P S	BA	2
Received Data	DCE	R(A) R(B)	4 11	104(A) 104(B)	R T	BB	3
Transmit Clock	DCE	--	--	114(A) 114(B)	Y AA	DB	15
Receive Clock	DCE	S(A) S(B)	6 13	115(A) 115(B)	V X	DD	17
Ext. Transmit Clock	DTE	B(A) B(B)	7 14	113(A) 113	U W	DA	24
Request To Send	DTE	C(A) C(B)	3 10	105	C	CA	4
Clear To Send	DCE	--	--	106	D	CB	5
Data Set Ready	DCE	--	--	107	E	CC	6
Data Terminal Ready	DTE	--	--	108	H	CD	20
Data Carrier Detect	DCE	I(A) I(B)	5 12	109	F	CF	8
Local Loopback	DTE	--	--	141	L	LL	18
Remote Loopback	DTE	--	--	140	N	RL	21
Ring Indicator	DCE	--	--	125	J	CE	22
Test Mode	DCE	--	--	142	NN	TM	25
Cable Type 4	--		n/c		n/c		
Cable Type 3	--		n/c		n/c		
Cable Type 2	--						
Cable Type 1	--						
Cable Type 0	--						

Custom Cables

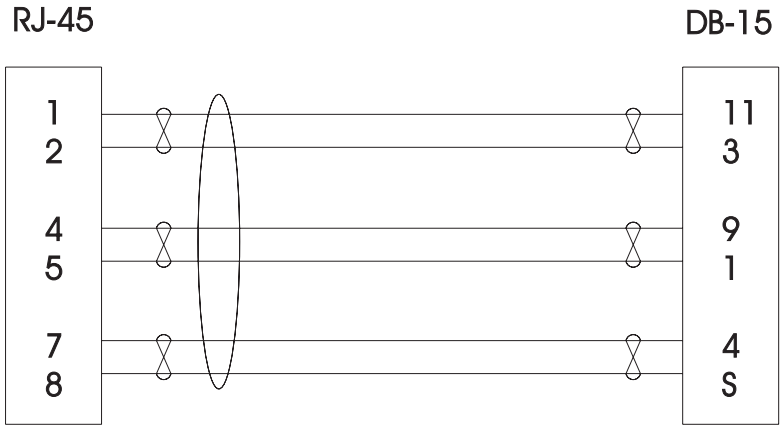
RJ-45 to DB15F Cable Assembly (For T1/E1 Port 120Ω Connections)



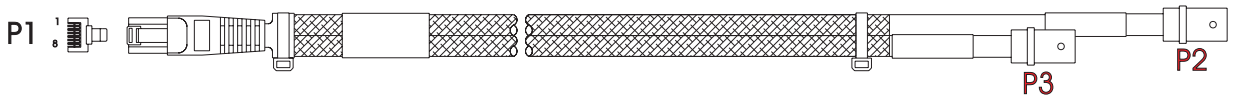
The following parts are recommended for the ends of the cable:

- For the switch side of the cable assembly (P1): 8-conductor RJ-45 round connector (MTP-88U or equivalent)
- Parts for the customer end of the cable (P2) can be of any industry-standard manufacturer. Use of a shielded-type DB-15 female connector is recommended.

  Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.



RJ-45 to BNC Cable Assembly (For E1 75Ω Port Connections)



The following parts are recommended for manufacturing the cable:

- For the switch side of the cable assembly (P1): 8-conductor RJ-45 round connector (MTP-88U or equivalent)
- For the cable: RG-187A coaxial cable (Belden 83267 or equivalent)
- For the customer end of the cable assembly (P2 and P3): Coaxial BNC connector, 75Ω (Amp 413760-8, or equivalent).

The figure below shows the pinouts for the cable assembly.