

TOTAL ACCESS 3010
50-PIN TO 50-PIN
DSLAM CABLE

GENERAL

This Job Aid provides instructions for installation and operational use of the Total Access 3010 Backplane ADSL + POTS Converter Cable group (P/N 11829211).

DESCRIPTION

The converter cable group is comprised of two separately sheathed cable bundles. Each bundle has four 50-pin female amphiprismatic connectors on the Total Access 3010 end, and three 50-pin male amphiprismatic on the MDF end, assigned to POTS or ADSL+POTS, plus an additional cable and 50-pin male amphiprismatic for IMA transport. See the Figure below. The amphiprismatic are keyed and labeled for easy identification. A staggered length allows the amphiprismatic to align to the associated Total Access 3010 connectors. After insertion from the appropriate enclosure, a hold-down screw and tie wrap secures the amphiprismatic in place. Total amphiprismatic-to-amphiprismatic length from the centerline of the longest cable on each end of both cable groups is about 30 inches.

NOTE: Refer to specific audit documentation for the function and operation of the circuit cards referenced in this job aid.

ADSL + POTS Cables

The two cable bundles are identified as Even and Odd. The Even group connects to Total Access 3010 backplane connectors Pair 2, Pair 4, Pair 6, and Pair 8. The signals on these cables are ADSL + POTS in the customer loop via OC1M, ADSL, plus POTS splitter cards (P/N 410142112).

The Odd group connects to Pair 1, Pair 3, Pair 5, and Pair 7. The signal on these cables is POTS only from the network through the same splitter card.

The three Even 50-pin amphiprismatic are labeled ADSL 23-4, ADSL 23-2, and ADSL 25-3. The three Odd 50-pin amphiprismatic are labeled POTS 23-1, POTS 23-2, and POTS 23-3.

The Tables on the reverse chart the 50-pin to 50-pin amphiprismatic assignments. Termination of the 50-pin amphiprismatic on the MDF end is customer designated.

Octal IMA Cables

An additional 21-inch cable and 50-pin male amphiprismatic on the MDF end of each bundle is for the two DCITAL IMA cards (P/N 1181300X series). Each card occupies two slots, 18/19 or 21/22, on the Total Access 3010. The odd cable carries the IMA RX pairs, and the even cable carries the IMA TX pairs. Termination of the cable amphiprismatic are customer designated.

The Table below charts the port-slot-function-color code for each OCTAL IMA cable.

Cable	Set	Pair	Color	Even					
				Slot	Port	Cable Set	Pair Color	Slot	Port
IMA Rx	W/SR	BL/W	18/20	1	IMA Tx	W/SR	BL/W	18/20	1
IMA Rx	W/SR	DR/W	18/20	2	IMA Tx	W/SR	DR/W	18/20	2
IMA Rx	W/SR	GR/W	18/20	3	IMA Tx	W/SR	GR/W	18/20	3
IMA Rx	W/SR	BR/W	18/20	4	IMA Tx	W/SR	BR/W	18/20	4
IMA Rx	W/SR	BL/W	18/20	5	IMA Tx	W/SR	BL/W	18/20	5
IMA Rx	W/SR	BL/R	18/20	6	IMA Tx	W/SR	BL/R	18/20	6
IMA Rx	P/SL	DR/R	18/20	7	IMA Tx	SL/R	DR/R	18/20	7
IMA Rx	P/SL	GR/R	18/20	8	IMA Tx	SL/R	GR/R	18/20	8
IMA Rx	P/SL	DR/R	21/22	1	IMA Tx	SL/R	DR/R	21/22	1
IMA Rx	P/SL	BL/R	21/22	2	IMA Tx	SL/R	BL/R	21/22	2
IMA Rx	DR/SL	BL/DR	21/22	3	IMA Tx	DR/SL	BL/DR	21/22	3
IMA Rx	DR/SL	DR/DR	21/22	4	IMA Tx	DR/SL	DR/DR	21/22	4
IMA Rx	DR/SL	DR/DR	21/22	5	IMA Tx	DR/SL	DR/DR	21/22	5
IMA Rx	DR/SL	BL/DR	21/22	6	IMA Tx	DR/SL	BL/DR	21/22	6
IMA Rx	DR/SL	BL/DR	21/22	7	IMA Tx	DR/SL	BL/DR	21/22	7
IMA Rx	DR/SL	BL/R	21/22	8	IMA Tx	DR/SL	BL/R	21/22	8

Pin 1/42 through 26/50 not connected.

Drain

To provide drain for the shielded IMA leads, pin 50 on the IMA amphiprismatic connects to pin 50 Pair 4 (EVEN) and pin 50 Pair 5 (ODD).

Except for drain, Pair 1 through Pair 8 amphiprismatic pins 23/48, 24/48, and 25/50, are not otherwise connected. Following the connection of amphiprismatic and cables, drain and lace off wiring to workmanship standards.



ADSL + POTS EVEN Cable Assemblies

TA 3010 50-Pin Asapheral	Connecting Cables	MOF ADSL 50-Pin Asapheral	ADSL +POTS to Customer	50-Pin Asapheral Pin Assignments
PAIR 2		ADSL 25-1	Linecard 1, Ports 1-8 Linecard 2, Ports 1-8 Linecard 3, Ports 1-8 Linecard 4, Ports 1-8	1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33 9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49 1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33
PAIR 4		ADSL 25-2	Linecard 5, Ports 1-8 Linecard 6, Ports 1-8 Linecard 7, Ports 1-8 Linecard 8, Ports 1-8	9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49 1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33
PAIR 6		ADSL 25-3	Linecard 9, Ports 1-8 Linecard 8, Ports 1-8	9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49
PAIR 8		NA	IMA Transmit	See Table on opposite side for P10146s.

POTS ODD Cable Assemblies

TA 3010 50-Pin Asapheral	Connecting Cables	MOF POTS 50-Pin Asapheral	POTS to Network	50-Pin Asapheral Pin Assignments
PAIR 1		POTS 25-1	Linecard 1, Ports 1-8 Linecard 2, Ports 1-8 Linecard 3, Ports 1-8 Linecard 4, Ports 1-8	1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33 9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49 1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33
PAIR 3		POTS 25-2	Linecard 5, Ports 1-8 Linecard 6, Ports 1-8 Linecard 7, Ports 1-8 Linecard 8, Ports 1-8	9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49 1/28, 2/27, 3/28, 4/28, 5/30, 6/31, 7/32, 8/33
PAIR 5		POTS 25-3	Linecard 9, Ports 1-8 Linecard 8, Ports 1-8	9/34, 10/35, 11/36, 12/37, 13/38, 14/39, 15/40, 16/41 17/42, 18/43, 19/44, 20/45, 21/46, 22/47, 23/48, 24/49
PAIR 7		NA	IMA Receive	See Table on opposite side for P10146s.