

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 1182925L1).

DESCRIPTION

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

NOTE: Refer to specific unit 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 to the customer loop via OCTAL ADSL plus POTS splitter cards (P/N 4181425L2).

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 amphenols are labeled ADSL 25-1, ADSL 25-2, and ADSL 25-3. The three Odd 50-pin amphenols are labeled POTS 25-1, POTS 25-2, and POTS 25-3.

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

Octal IMA Cables

An additional 21-inch cable and 50-pin male amphenol on the MDF end of each bundle is for the two OCTAL IMA cards (P/N 1181409LX series). Each card occupies two slots, 19/20 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 amphenols are customer designated.

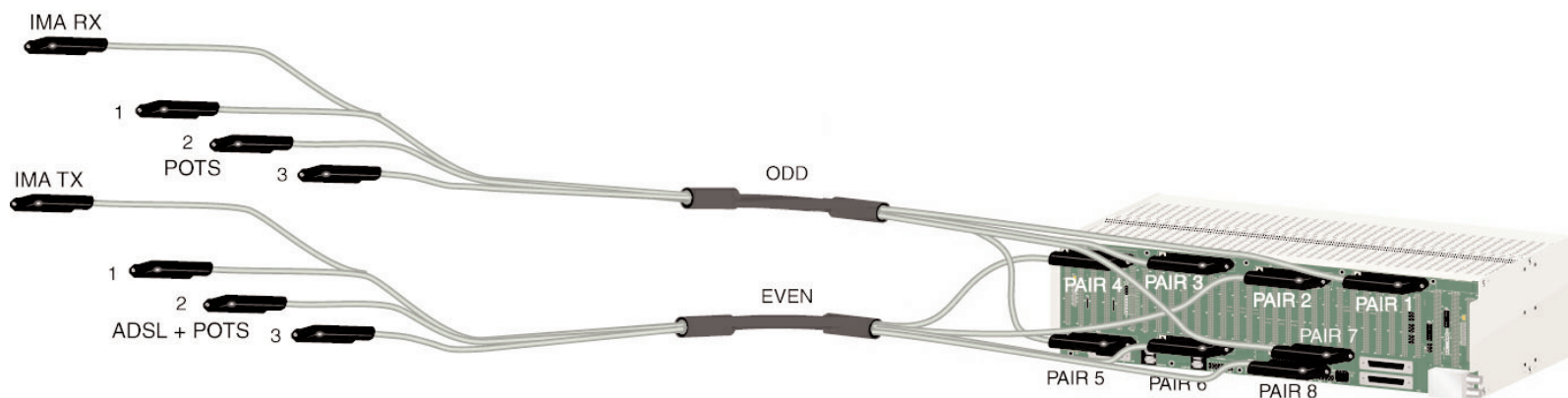
The **Table** below charts the port-slot-function-color code for each OCTAL IMA cable.

| Odd | | | | Even | | | |
|---|-------------|-------|------|-----------|-------------|-------|------|
| Cable Set | Pair Color | Slot | Port | Cable Set | Pair Color | Slot | Port |
| IMA Rx | W/BL,BL/W | 19/20 | 1 | IMA Tx | W/BL,BL/W | 19/20 | 1 |
| IMA Rx | W/OR, OR/W | 19/20 | 2 | IMA Tx | W/OR, OR/W | 19/20 | 2 |
| IMA Rx | W/GR,GR/W | 19/20 | 3 | IMA Tx | W/GR,GR/W | 19/20 | 3 |
| IMA Rx | W/BR,BR/W | 19/20 | 4 | IMA Tx | W/BR,BR/W | 19/20 | 4 |
| IMA Rx | W/SL,SL/W | 19/20 | 5 | IMA Tx | W/SL,SL/W | 19/20 | 5 |
| IMA Rx | R/BL,BL/R | 19/20 | 6 | IMA Tx | R/BL,BL/R | 19/20 | 6 |
| IMA Rx | R/OR,OR/R | 19/20 | 7 | IMA Tx | R/OR,OR/R | 19/20 | 7 |
| IMA Rx | R/GR,GR/R | 19/20 | 8 | IMA Tx | R/GR,GR/R | 19/20 | 8 |
| IMA Rx | R/BR,BR/R | 21/22 | 1 | IMA Tx | R/BR,BR/R | 21/22 | 1 |
| IMA Rx | R/SL,SL/R | 21/22 | 2 | IMA Tx | R/SL,SL/R | 21/22 | 2 |
| IMA Rx | BK/BL,BL/BK | 21/22 | 3 | IMA Tx | BK/BL,BL/BK | 21/22 | 3 |
| IMA Rx | BK/OR,OR/BK | 21/22 | 4 | IMA Tx | BK/OR,OR/BK | 21/22 | 4 |
| IMA Rx | BK/GR,GR/BK | 21/22 | 5 | IMA Tx | BK/GR,GR/BK | 21/22 | 5 |
| IMA Rx | BK/BR,BR/BK | 21/22 | 6 | IMA Tx | BK/BR,BR/BK | 21/22 | 6 |
| IMA Rx | BK/SL,SL/BK | 21/22 | 7 | IMA Tx | BK/SL,SL/BK | 21/22 | 7 |
| IMA Rx | Y/BL,BL/Y | 21/22 | 8 | IMA Tx | Y/BL,BL/Y | 21/22 | 8 |
| Pins 17/42 through 25/50 not connected. | | | | | | | |

Drain

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

Except for drain, Pair-1 through Pair-8 amphenol pins: 23/48, 24/49, and 25/50, are not otherwise connected. Following the connection of amphenols and cables, dress and lace all wiring to workmanship standards.





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

PRICING AND AVAILABILITY 800.827.0807
TECH SUPPORT 800.726.8663
RETURN FOR REPAIR 256.963.8722
www.adtran.com
61182925L2-22A

ADSL + POTS EVEN Cable Amphenols

| TA 3010 50-Pin Amphenol | Connecting Cables | MDF ADSL 50-Pin Amphenol | ADSL +POTS to Customer | 50-Pin Amphenol 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 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 4 | | ADSL 25-2 | Linecard 5, Ports 1-8 Linecard 6, Ports 1-8 Linecard 7, Ports 1-8 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 6 | | ADSL 25-3 | Linecard 8, Ports 1-8 Linecard 9, Ports 1-8 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 8 | | NA | IMA Transmit | See Table on opposite side for pinouts. |

POTS ODD Cable Amphenols

| TA 3010 50-Pin Amphenol | Connecting Cables | MDF POTS 50-Pin Amphenol | POTS to Network | 50-Pin Amphenol 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 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 3 | | POTS 25-2 | Linecard 5, Ports 1-8 Linecard 6, Ports 1-8 Linecard 7, Ports 1-8 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 5 | | POTS 25-3 | Linecard 8, Ports 1-8 Linecard 9, Ports 1-8 | 1/26, 2/27, 3/28, 4/29, 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 |
| PAIR 7 | | NA | IMA Receive | See Table on opposite side for pinouts. |