



Model 2048 POTS/ISDN Splitter Shelf Installation Guide

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This guide provides the basic information required to install the Comtest Model 2048 POTS/ISDN Splitter Shelf in a Central Office location.

Installation

The 2048 requires 1.25U (2 inches) of rack space and is centre mounted. The shelf is supplied with mounting brackets and hardware to allow installation in a 19 inch or 23 inch rack. By repositioning the mounting brackets, the shelf can be installed with the connectors front or rear facing. With the connectors facing the rear, a depth of 10 inches would be sufficient to mount the shelf with cables installed.



Grounding

To comply with the Network Equipment Building Systems (NEBS) requirements, a suitable ground must be provided. The 2048 can be grounded to the rack through the mounting brackets, eliminating the need for separate a ground wire.

Cabling Overview

The 2048 Splitter Shelf cabling configurations will vary depending on installation locations and the number of lines supported by the DSLAM. However, the physical interface to the back plane connectors are standard 50-pin telephone-type receptacle connectors. Each Splitter card uses 24 pairs of the 25 pairs available on each 50-pin connector.



The DSL Interface connectors (J1 and J4) and the LOOP Interface connectors (J2 and J5) are oriented so that the mating plug left-angled cable head will dress out to the left side of the shelf. Whereas, the PSTN Interface connectors (J3 and J6) are oriented so that the mating plug rightangled cable head will dress out to the right side of the shelf.

Connector Pinouts

As view from the rear of the shelf:

- ADSL signals to and from the DSLAM enter the 2048 splitter shelf using the left most telephone connectors, designated “DSL Interface”.
- Signals to and from the LINE (outside plant) enter the 2048 splitter shelf using the centre telephone connectors, designated “Loop Interface”.

- Cables to and from the central office switch enter the 2048 splitter shelf via the right hand telephone connectors, designated “PSTN Interface”.

Filter No.	ADSL Connector		LINE Connector		PSTN Connector	
	Tip	Ring	Tip	Ring	Tip	Ring
1	26	1	26	1	26	1
2	27	2	27	2	27	2
3	28	3	28	3	28	3
4	29	4	29	4	29	4
5	30	5	30	5	30	5
6	31	6	31	6	31	6
7	32	7	32	7	32	7
8	33	8	33	8	33	8
9	34	9	34	9	34	9
10	35	10	35	10	35	10
11	36	11	36	11	36	11
12	37	12	37	12	37	12
13	38	13	38	13	38	13
14	39	14	39	14	39	14
15	40	15	40	15	40	15
16	41	16	41	16	41	16
17	42	17	42	17	42	17
18	43	18	43	18	43	18
19	44	19	44	19	44	19
20	45	20	45	20	45	20
21	46	21	46	21	46	21
22	47	22	47	22	47	22
23	48	23	48	23	48	23
24	49	24	49	24	49	24

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