

**1 (A) General Installation Guidelines**

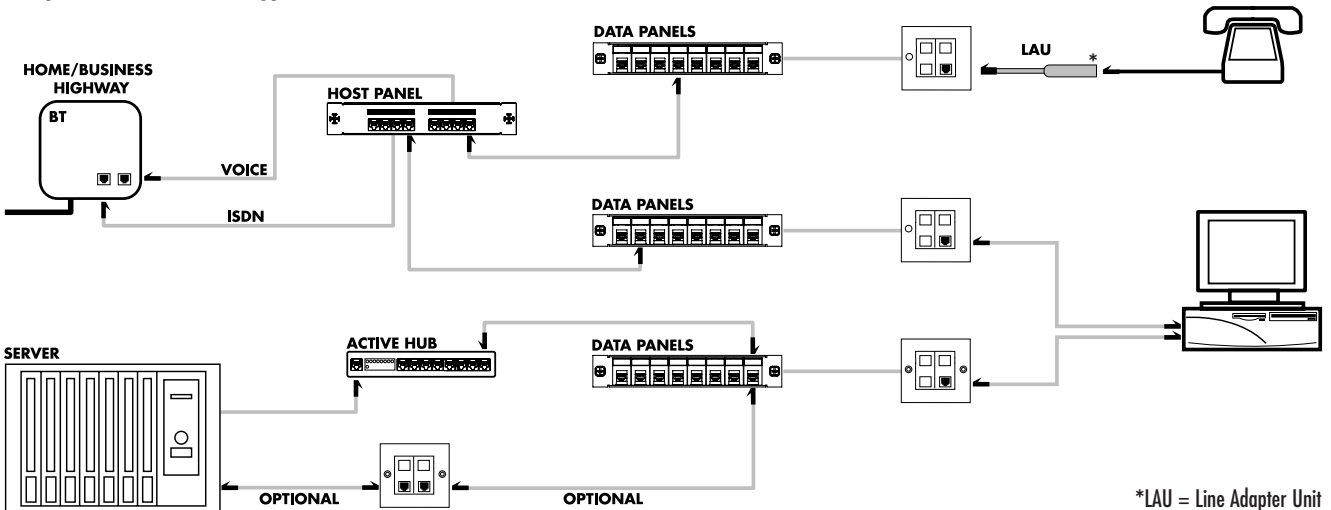
Consideration should be given to the proximity of data cabling to electrical power cable, radio frequency sources, large motors and generators. Therefore it is advisable to keep power and data cable separated as far as possible.

**1(B) Bend Radii**

Minimum bend radii must be observed for all cabling to ensure it is not damaged or its performance impaired. The minimum permissible bend radius of a cable is greater during pulling-in, when it is under tension, than when installed, and free from tension.



**CompactLAN Installation (Typical)**



\*LAU = Line Adapter Unit  
Available from Molex Premise Networks

BT Home Highway is a copyright of British Telecom PLC

**MOLEX PREMISE NETWORKS**

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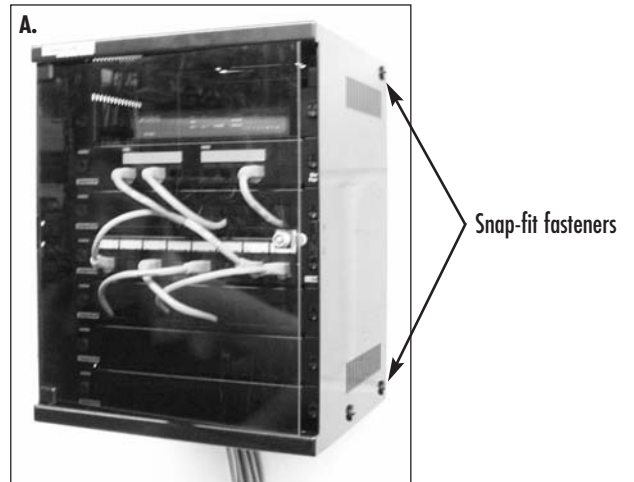
Before installing calculate the number of walloulets/ports required for each user, including; PC, telephone, fax etc. Measure the length of cable required from the walloutlet ports to the cabinet.

1x4 Pair cable = 1 x Patch Panel Port and 1 x Walloutlet Port.

Add to the measured length of cable sufficient length for termination and dressing into the cabinet (approx. 550mm) (Figure D) and sufficient length to terminate at the walloutlet (approx 100mm).

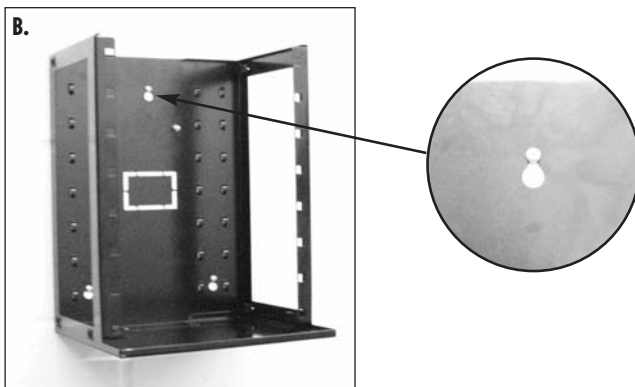
**2 (A) Cabinet Installation**

Remove snap-fit fasteners (turn through 90P to release) from both sides of the cabinet. (Figure )



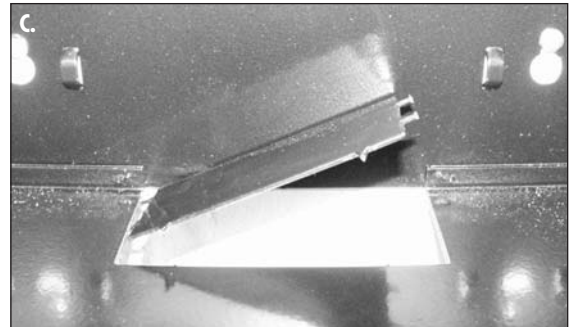
**2 (B) Mounting**

Separate the 2 halves of the cabinet and choose an area of wall on which to mount the rear half of the cabinet. Position near incoming telephone lines (if applicable) and close to a power point for the hub/switch. Mount the rear half of the cabinet to the wall using the screw slots provided. (Figure B)



**2 (C) Cable Entry**

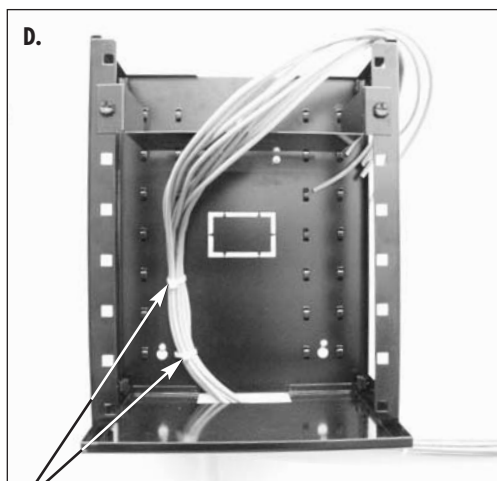
Remove the entry plates from either the top, bottom or middle of the cabinet, depending on where cables is to be drawn in. Ensure that the middle plate is removed prior to wall mounting if cable is to be drawn in from the middle. (Figure C)



Protect the incoming cable by covering the cable entry hole with the grommet strip provided.

**2 (D) Securing the Cable**

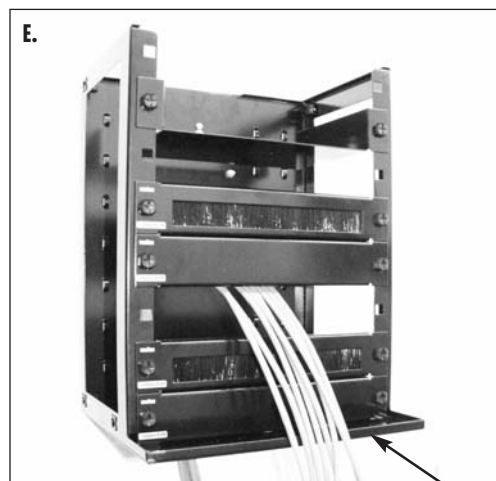
Secure cables with cable ties. (Do not overtighten cable ties as this may adversely affect system performance)



Cable Ties

**2 (E) Preparing Panel for Termination**

Lay panels ready for termination on terminating shelf. (Figure E)



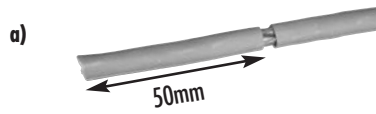
Termination Shelf

# INSTALLATION INSTRUCTIONS



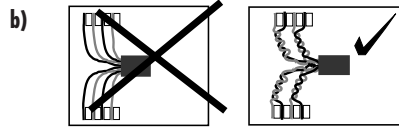
## 3 (A) Panel Termination (Part No. PID-00099)

Strip off 50mm of cable insulation from each cable to be terminated.

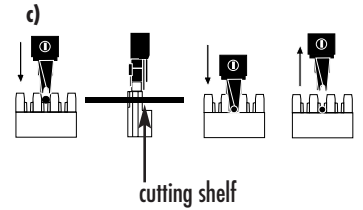


Note connector colour coding and terminate accordingly (see below)

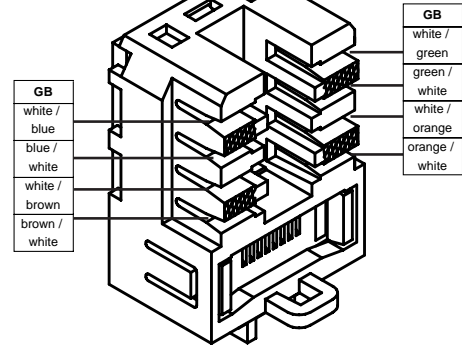
**NOTE** - Ensure that the cable's natural twists remain twisted as close as possible to the IDC, when terminating.



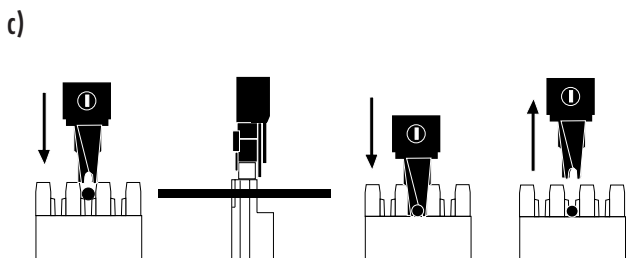
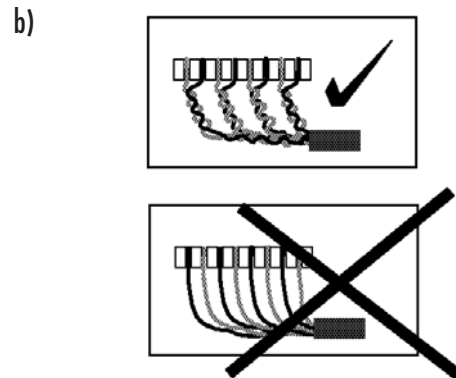
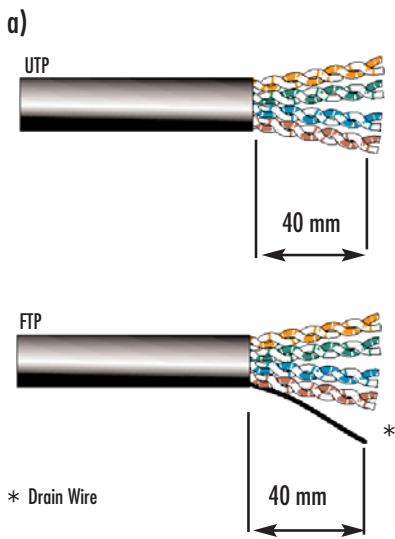
Place cables into IDC blocks and terminate. Ensure correct orientation with cables being trimmed on cutting shelf



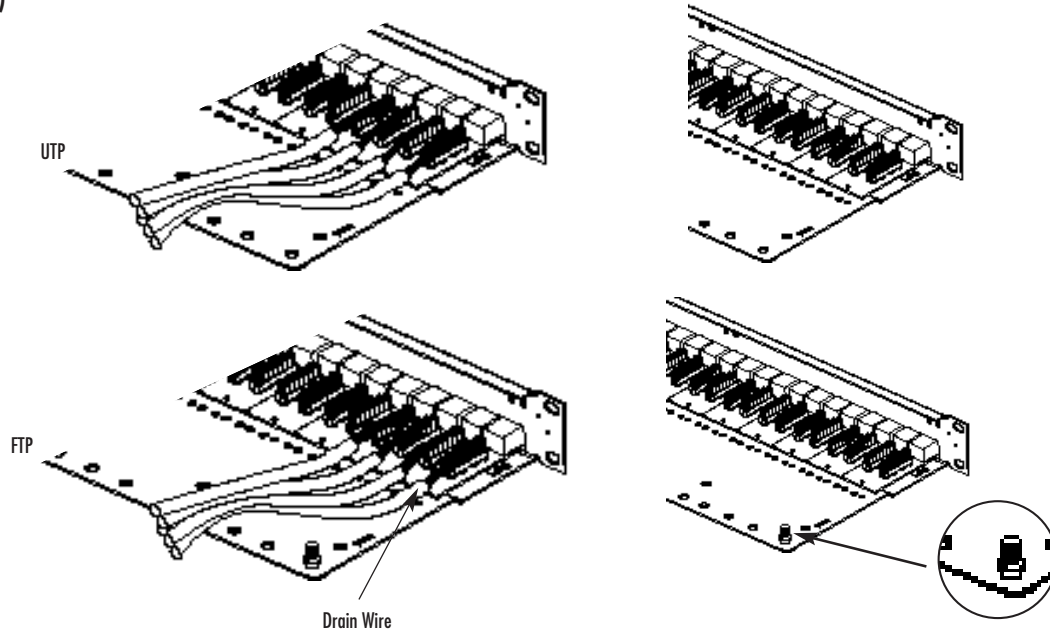
Wiring sequence colour code



## 3 (B) Data Panel Termination (part number PID-00180 and PID-00181)



d)



e)

568A

**F**  
 blanc/bleu  
 bleu  
 blanc/vert  
 vert  
 blanc/orange  
 orange  
 blanc/marron  
 marron  
 \*

**D**  
 weiß/blau  
 blau  
 weiß/grün  
 grün  
 orange/weiß  
 orange  
 weiß/braun  
 braun  
 \*

**E**  
 blanco/azul  
 azul  
 blanco/verde  
 verde  
 blanco/naranja  
 naranja  
 blanco/marron  
 marron  
 \*

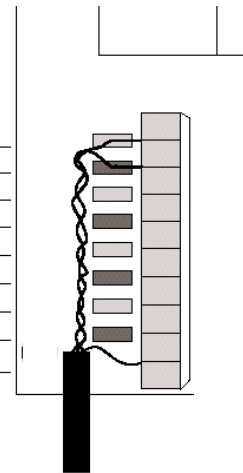
**NL**  
 wit/blauw  
 blauw  
 wit/groen  
 groen  
 wit/oranje  
 oranje  
 wit/bruin  
 bruin  
 \*

**GB**  
 white/blue  
 blue  
 white/green  
 green  
 white/orange  
 orange  
 white/brown  
 brown  
 drain wire

Jack Pin

- 5
- 4
- 1
- 2
- 3
- 6
- 7
- 8

Shield



568B

**F**  
 blanc/bleu  
 bleu  
 blanc/orange  
 orange  
 blanc/vert  
 vert  
 blanc/marron  
 marron  
 \*

**D**  
 weiß/blau  
 blau  
 weiß/orange  
 orange  
 weiß/grün  
 grün  
 weiß/braun  
 braun  
 \*

**E**  
 blanco/azul  
 azul  
 blanco/naranja  
 naranja  
 blanco/verde  
 verde  
 blanco/marron  
 marron  
 \*

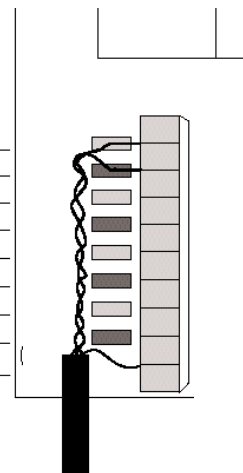
**NL**  
 wit/blauw  
 blauw  
 wit/oranje  
 oranje  
 wit/groen  
 groen  
 wit/bruin  
 bruin  
 \*

**GB**  
 white/blue  
 blue  
 white/orange  
 orange  
 white/green  
 green  
 white/brown  
 brown  
 drain wire

Jack Pin

- 5
- 4
- 1
- 2
- 3
- 6
- 7
- 8

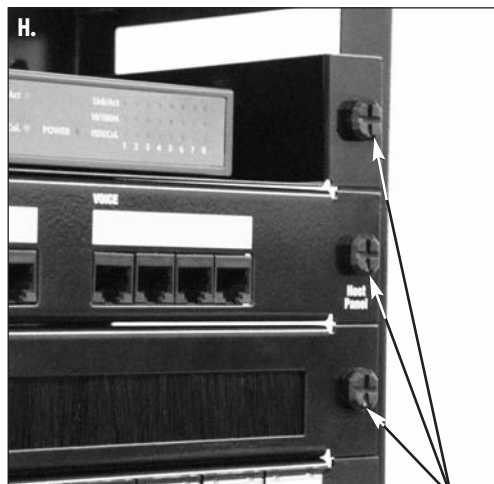
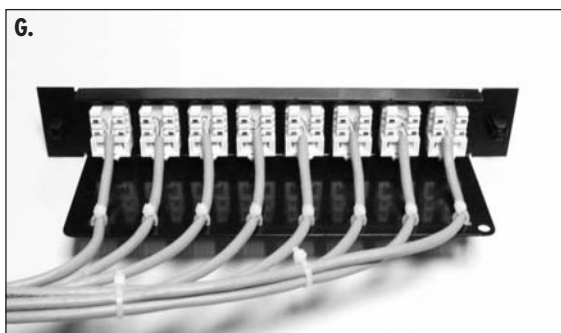
Shield



**3 (C) Mounting the Panels**

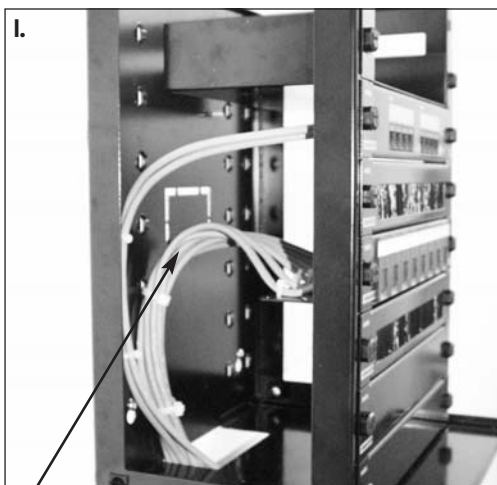
Dress the cable on rear of panel by securing it with cable ties on the cable management tray. (See Figure G)

Fit panels in the cabinet mounting rails by locating the snap-fit fasteners, turn through 45° and push firmly - they snap shut. (See Figure H)



Snap-Fit Fasteners

**3 (D) Data Panel Termination Continued**



Ensure cable bend radius is maintained

**Patch Cords ;**

**BT6L Cords** - Available from most high street computer and phone retailers.

**RJ45 Cords** - Available from Molex Premise Networks

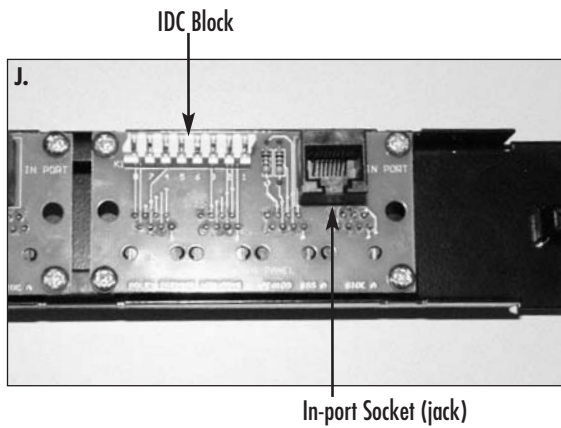


**4 (A) Host Panel Termination - ISDN (4 Port)**

There are two methods of installation. (Figure J)

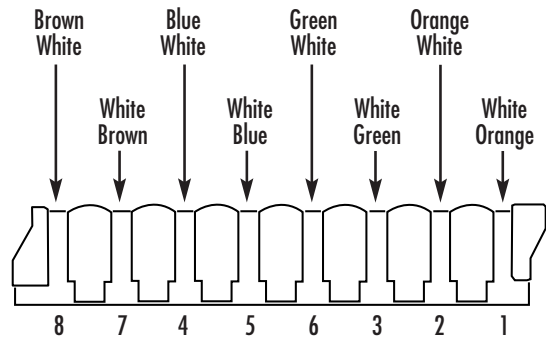
**Method 1** Plug one end of a RJ45 Category 5e patchcord into the in-port socket (jack) on the panel and the other end of the patch cord into the BT Home Highway, ISDN or ISDN2E socket.

**Method 2** Terminate the cable in the IDC Block. (See Below)



**ISDN 4 Port IDC Block Punch Down Termination Sequence**

Strip off 50mm of cable insulation from each cable to be terminated. Terminate the ISDN IDC Block as follows;



Crimp an RJ45 plug onto the other end of the cable and plug into a BT Home Highway, ISDN or ISDN2E socket.

**ISDN 8 Port Panel - Termination**

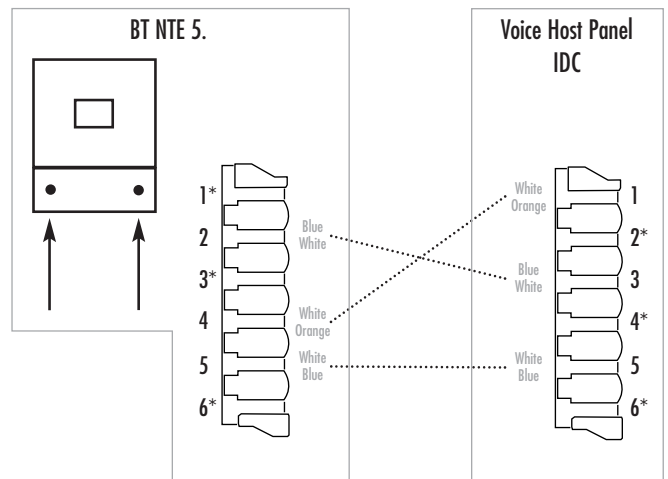
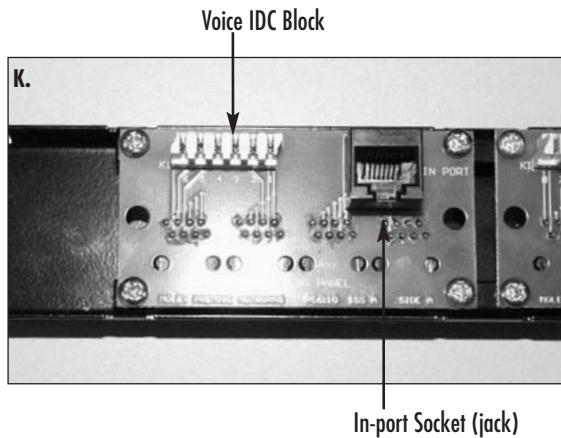
Plug one end of a RJ45 Category 5e patchcord into the in-port socket (jack) on the panel and the other end of the patch cord into the BT Home Highway, ISDN or ISDN2E socket.

**4 (B) Host Panel Termination - Voice**

There are two methods of installation. (Figure K)

**Method 1** Using a BT6L to RJ11 Patch Cord, plug the RJ11 plug into the in-port socket (Jack) on the panel and plug the BT6L plug into the BT Home Highway voice socket.

**Method 2** Terminate the cable (Sequence Below). Strip off 50mm of cable insulation from each cable to be terminated. Terminate one end of cable into the BT NTE 5 connection box. Terminate the other end of the cable into the Host Panel voice IDC block.



\* Not Connected -trim wire off at sheath.

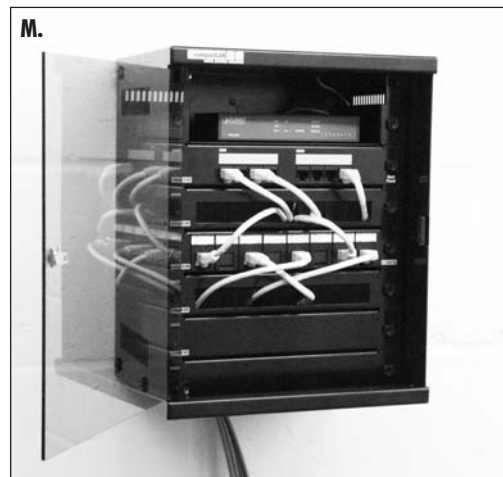
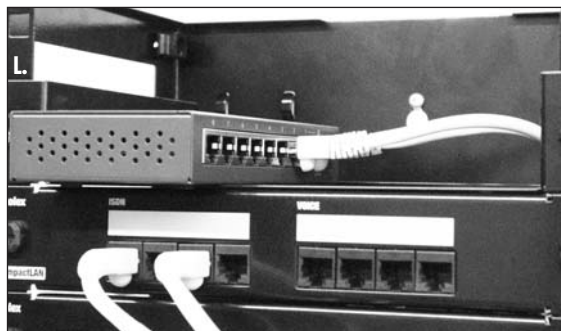
**5 (A) Hub/Switch Connection and Patching**

Connect Hub/Switch to power supply (Figure L)

Patch individual ports and tidy excess cable through brush panel. (Alternatively use cable management ring run panel)

**5 (B)**

Slide cabinet front cover over rear and secure quick-fit snap fasteners at each side of the cabinet. (Figure M)



**6 (A) Port Identification and Cable Labelling**

Identify each port with a unique number which corresponds to the walloutlet at the other end of the cable. Remember to keep identification numbers simple.



**7 (A) Cabinet Earthing**

The two halves of the cabinet are bonded by the earthing strap provided.

The cabinet earthing point (in rear of Cabinet) must be connected directly to one of the following (provided that earth potential differences are no more than 1 V r.m.s.).

- The consumers' main earthing terminal (CMET)
- The earthing terminal at a power main area distribution panel. (Provided this is carried out by a competent person in accordance with BS 7671 : 1992)

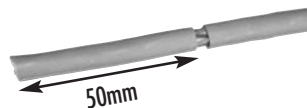
Earthing conductors between cabinet earth point and any of the above should be 6mm<sup>2</sup> unless required to be otherwise by applicable wiring regulations.

Where an earthing conductor is run in metallic containment, these should be bonded together at both ends to reduce impedance. The earth connection must not be via the protective earth in a power cable or via metallic containment systems.

The connection must be fixed - on no account is the connection to be made via a plug top.

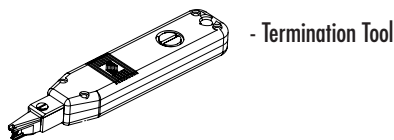
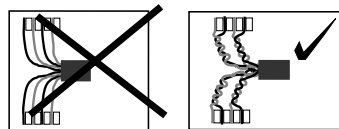
**8 (A) Walloutlet Termination**

Strip off 50mm of cable insulation from each cable to be terminated.

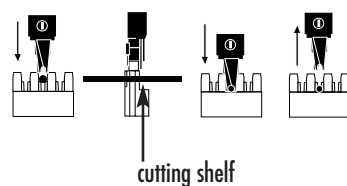


Note connector colour coding and terminate accordingly (see below)

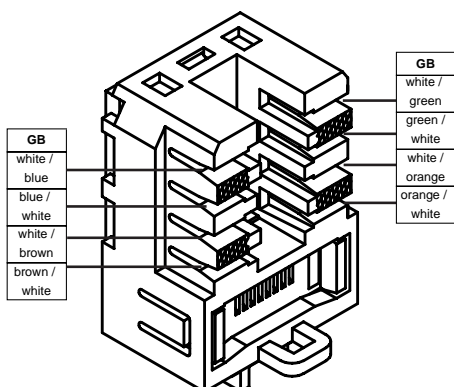
**NOTE** - Ensure that the cable's natural twists remain twisted as close as possible to the IDC, when terminating.



Place cables into IDC blocks and terminate. Ensure correct orientation with cables being trimmed on cutting shelf

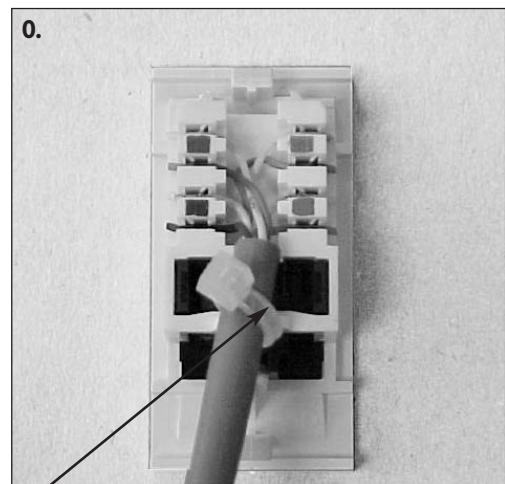


Wiring sequence colour code



**8 (B) Management**

Tie of the cable on tie point. (Figure 0)



Cable Tie Point

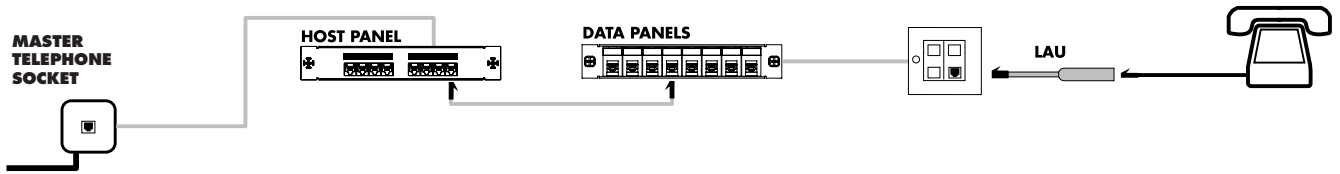
Snap module into faceplate and secure.

To complete the connection to PC, plug one end of the RJ45 Patch Cord into the Walloutlet and the other end into the rear of the PC.



**9) Telephone Connection**

To complete the connection to the telephone, plug the RJ45 end of the line adapter unit into the walloutlet and plug the telephone BT6L plug into the Line Adapter Unit socket.



**10) Line Adapter Units (LAU)**

Line Adapter Units allow telecommunication equipment fitted with BT telephone plugs to be connected to RJ45 based structured wiring systems (above).

A PBX mastered Line Adapter Unit is used in instances where a telephone extension is routed via an analogue PABX.

A Secondary Line Adapter Unit is used in instances where there is;

- A second telephone sharing an analogue PABX extension.
- Telephone extensions routed via a digital PABX.

Line Adapter Units are available from any Molex Premise Networks Distributor. To find your local distributor visit [www.molexpn.co.uk](http://www.molexpn.co.uk) and check our current list of authorised distributors.

To order Line Adapter Units (LAU) quote the following Part No's

<b>Order No.</b>	<b>Description</b>
42-111-2A	RJ45 to BT6L Socket, 150mm Cord (PABX)
42-114	RJ45 to BT6L Socket, 150mm Cord Secondary

For information on the connection of digital PBX's contact; Molex Premise Networks Technical Support on 01489 572111.