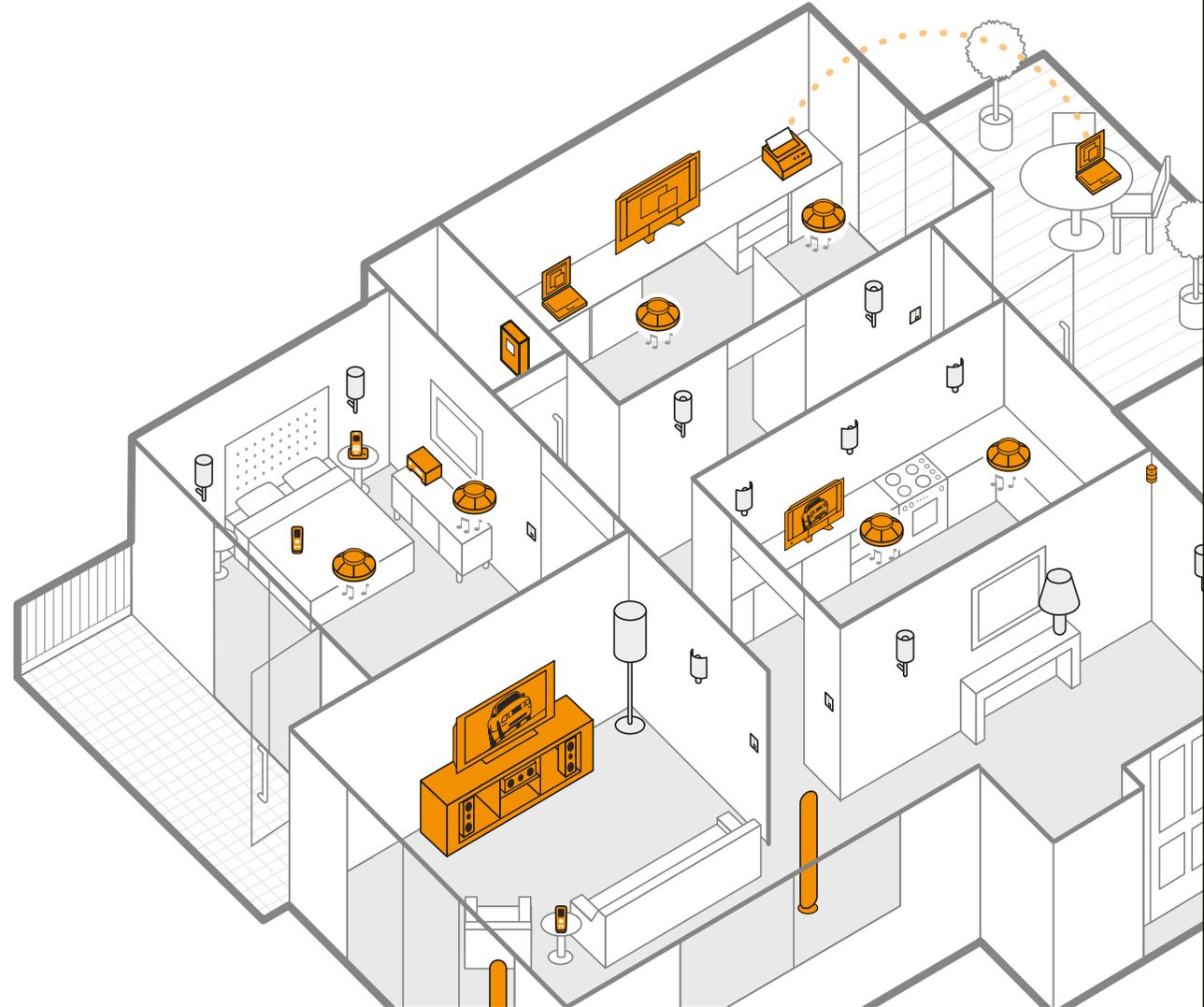
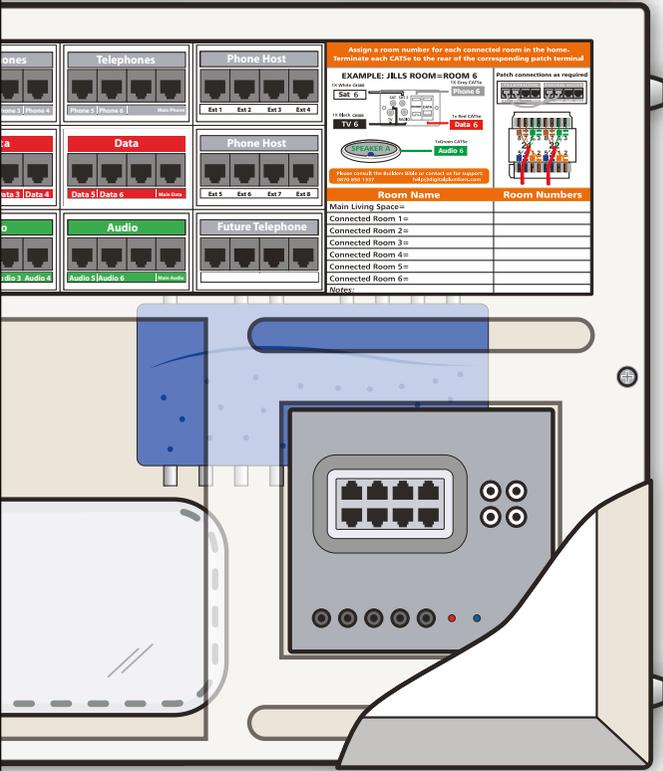


## Digital Plumbers Smart Wiring

### User Guide (8 room solution)

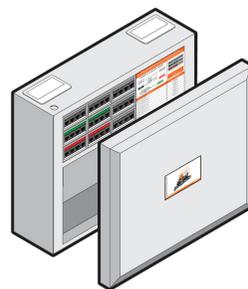


# Welcome to Digital Plumbers

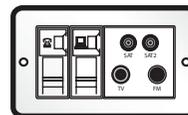
Congratulations on choosing a home fitted with Digital Plumbing Smart Wiring. Digital Plumbing means having the correct cables built into your home for modern everyday living and future-proofing.

You will be able to distribute your incoming telephone services, internet connections, television and satellite throughout the home. The system also has a number of other capabilities which may also distribute music to speaker locations in various rooms, where you may find also find Local Audio Sockets (ask your installer for more details).

Digital Plumbing Smart Wiring is used to connect telephone, data and television outlets (combined in the Room Media Socket) to the central Distribution Panel. The Distribution Panel allows all these services to be distributed around the home.



All the clever media cabling in your new property runs back to the **DP** (Distribution Panel). This is the hub of your digital home, from where TV, satellite, telephone, broadband data and music can be sent to any of your Connected Rooms. Your **DP** is pre-configured for these services, all of which can be easily activated by connecting the appropriate equipment.



Simple sockets located throughout your home allow you to connect your equipment you own to the **DP** (Distribution Panel) so you can access the internet, watch TV or satellite, listen to music, the radio or make a phone call.

## How to use this manual

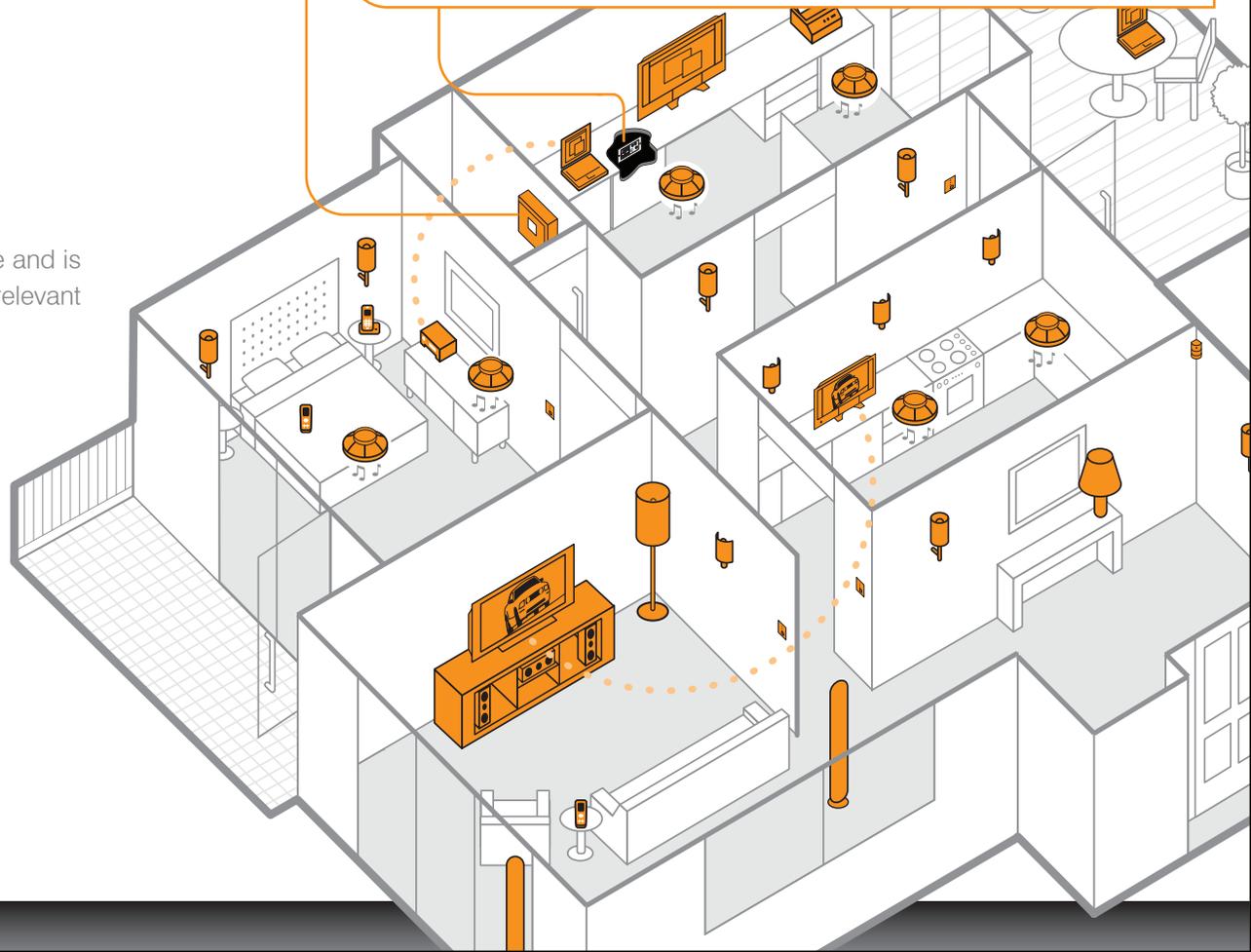
This owners' guide is designed to help you get the most from your Digital Home and is intended as a introductory user guide. For more detailed information, refer to the relevant FAQ sheets available (found at [www.digitalplumbers.com](http://www.digitalplumbers.com)).

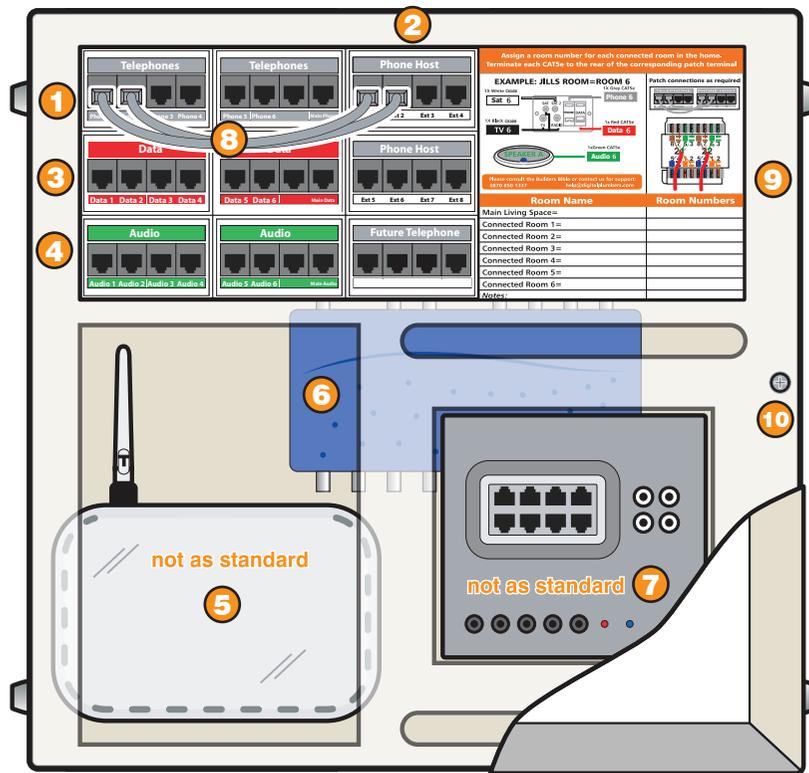


When you see this sign it means 'important information'



When you see this sign it means 'take note'



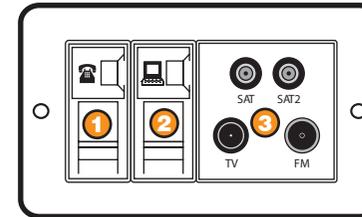


## Distribution Panel - Key to diagram

- 1 Telephone Modules
- 2 Phone Host Modules (1 module (4 ports) per incoming line)
- 3 Data Modules
- 4 Audio Outlet Modules (to connect to optional Audio Hub)
- 5 Optional Switch or ADSL Router (**may not be fitted as standard**)
- 6 TV Distribution Amplifier
- 7 Optional Audio Hub (**may not be fitted as standard**)
- 8 Patch Leads
- 9 Connection Legend (showing CAT5e and TV termination detail on front and rear of label)
- 10 Locking Screw (unscrew to release swing frame)

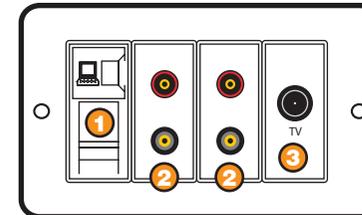
 Some of equipment shown in the Distribution Panel may not be fitted as standard.

## Room Media Socket - RMS



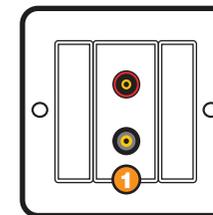
- 1 Telephone Outlet  (for connecting telephones and faxes)
- 2 Data Outlet  (for connecting ethernet devices - such as computers or network printers)
- 3 Quad TV Outlet  
(In most rooms the TV and FM will be the only sockets used on the Quad TV Outlet. The SAT and SAT2 sockets are only used to connect to a live satellite feed for a satellite receiver. This will have been configured by your installer).

## Main Media Socket - MMS



- 1 Audio Outlet (used for optional multi-room audio)
- 2 Rear Speaker Outlet (for connecting rear speakers to a home theatre system)
- 3 TV Return Outlet (used to send signals back to the Distribution Panel - called the 'uplink')

## Rear Speaker Socket - RSS



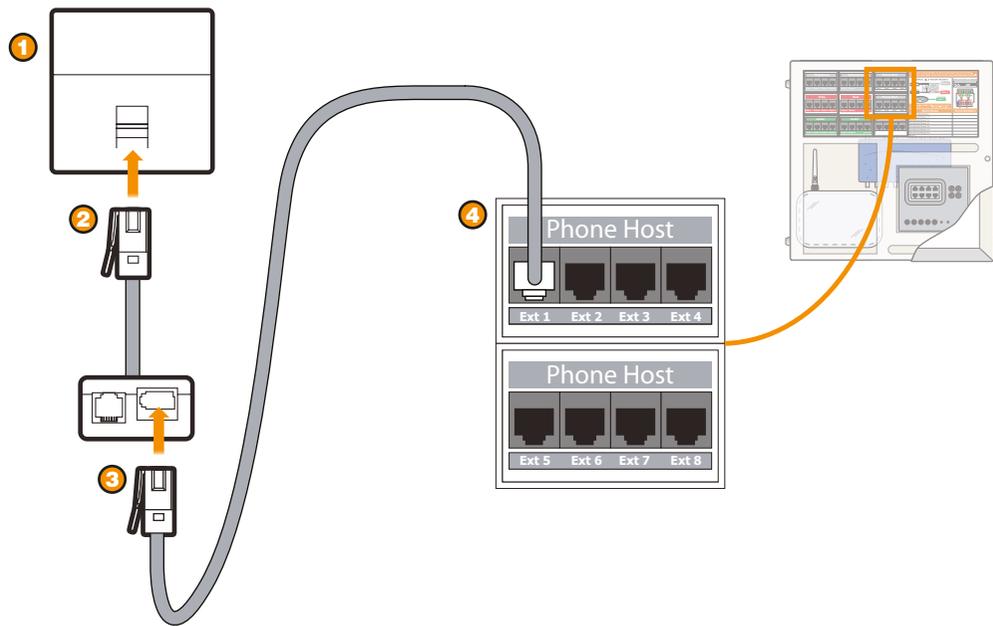
- 1 Rear Speaker Outlet (for connecting rear speakers to a home theatre system at the Main Media Socket)



# Telephone, Modem and Fax

## Connecting Telephone Line(s)

The Distribution Panel has the ability to extend an incoming phone line to the telephone outlets around the home. As standard the Phone Host Modules are connected together allowing a single telephone line to connect up to 7 telephone outlets. The Phone Host Module/s need to be connected to the phone line via a telephone master socket.

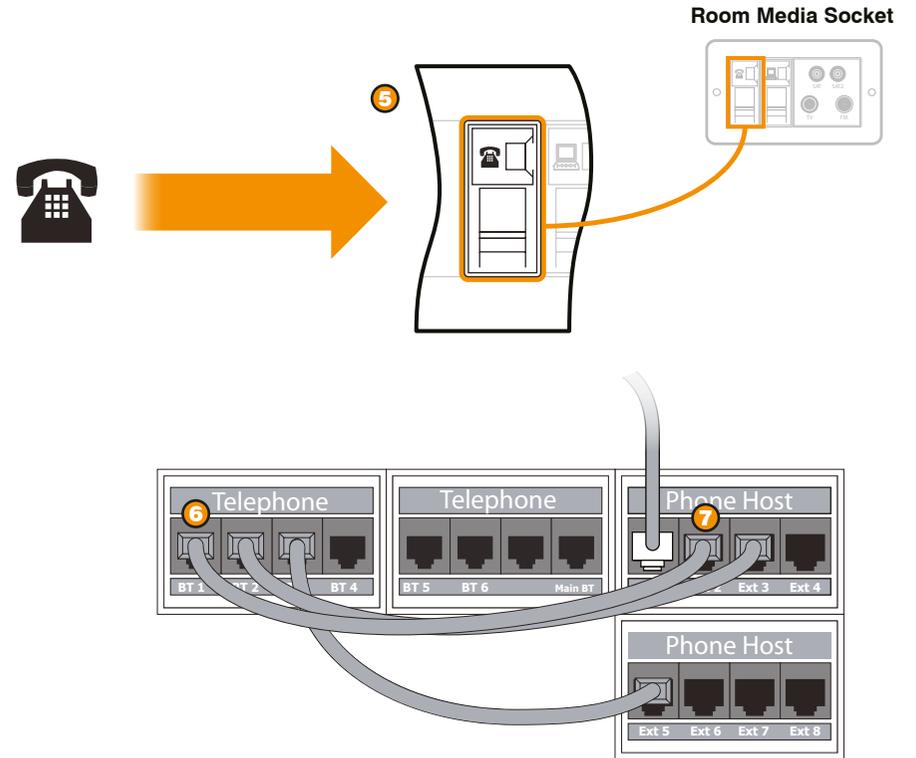


- 1 Telephone master socket provides incoming phone line
- 2 Add a microfilter if you require it for ADSL broadband to the incoming phone line
- 3 Connect the Phone Host to an incoming telephone line using a phone host lead
- 4 As standard the Phone Hosts are connected together to allow 1 incoming line to be extended up to 8 telephone outlets (individually each Phone Host will connect up to 4 telephone outlets per incoming line)

 Your incoming phone line may have of been connected to the Phone Host by your installer. If you require detailed information on how to connect each Phone Host Module to a separate incoming line refer to [www.digitalplumbers.com](http://www.digitalplumbers.com)

## Connecting Telephones and Equipment

- 5 Select the Telephone Outlet on the Room Media Socket (make a note of which room you are in) and plug in your equipment, such as a telephone.



- 6 At the Distribution Panel, plug a patch lead into the Telephone module with the same Connected Room number as noted on the Telephone Outlet.
- 7 Connect the other end of the patch lead to one of the free extension ports on the Phone Host Module (if more than one line is being used make sure you connect to the correct Phone Host). Repeat for further phones and equipment.

 The standard REN = 4 (Ring Equivalence Number) applies here. This means that you may only connect a maximum of four standard telephones, each with a REN of 1, to the telephone line at any one time. Other devices may have a REN of more than 1 (such as fax machines) and this will mean that you can have fewer telephones connected. If you connect more, you may find that they fail to ring. REN boosters are available.



# Creating a Local Area Network

## What is a Local Area Network?

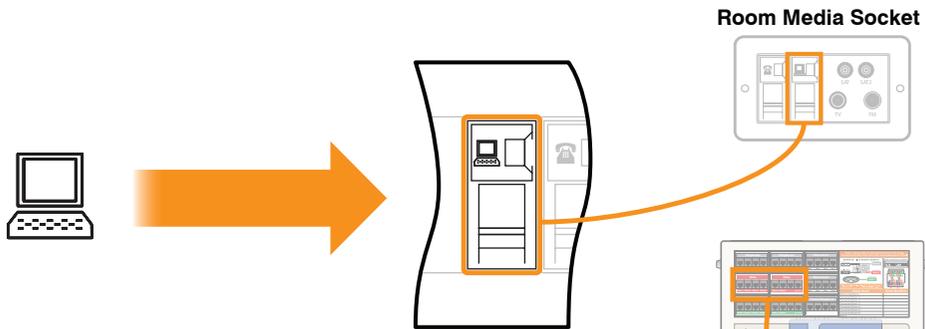
A number of Data Outlets are available around your home (these are found on the Room Media Socket) which can be used to create a Local Area Network or LAN.

A LAN allows computers and Network Enabled Devices, such as computers or network printers, to communicate with each other.

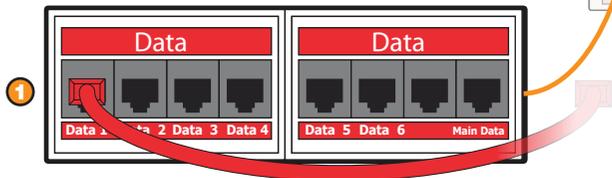
The LAN can be connected to the Internet to allow all of the Network Enabled Devices to access the internet. A router is required to connect to the internet and a switch (often combined in a single unit with your router) to establish your LAN.

## Connect Your Computers (and other equipment)

Select the Data Outlet on the Room Media Socket (make a note of which Connected Room you are in) and plug in a network enabled device, such as a computer.

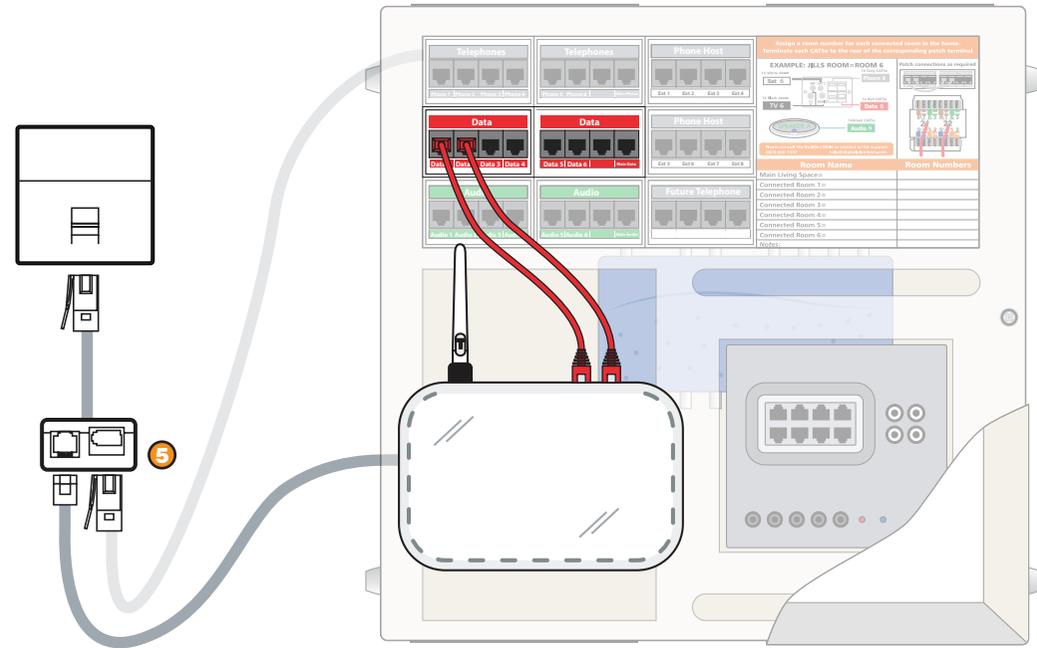


## Create a Local Area Network



- 1 At the Distribution Panel, plug a patch lead into the Data module with the same Connected Room number as noted on the Data Outlet.

- 2 A router/switch will need to be mounted in the Distribution Panel to create a LAN. This will route the data traffic to each of the connected Data Outlets and allow the network device to communicate to each other.
- 3 Connect the patch lead connected to the Data Outlet to one of the ethernet ports on the router.
- 4 Repeat this procedure if required to connect more Data Outlets as required.



## Connecting to the Internet

- 5 The router should be connected to the ADSL line using a Microfilter - this is then connected to the telephone line used for your internet.

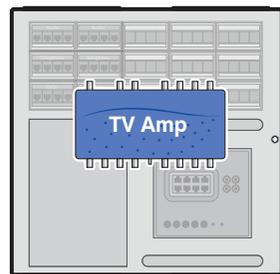


# Television and Satellite

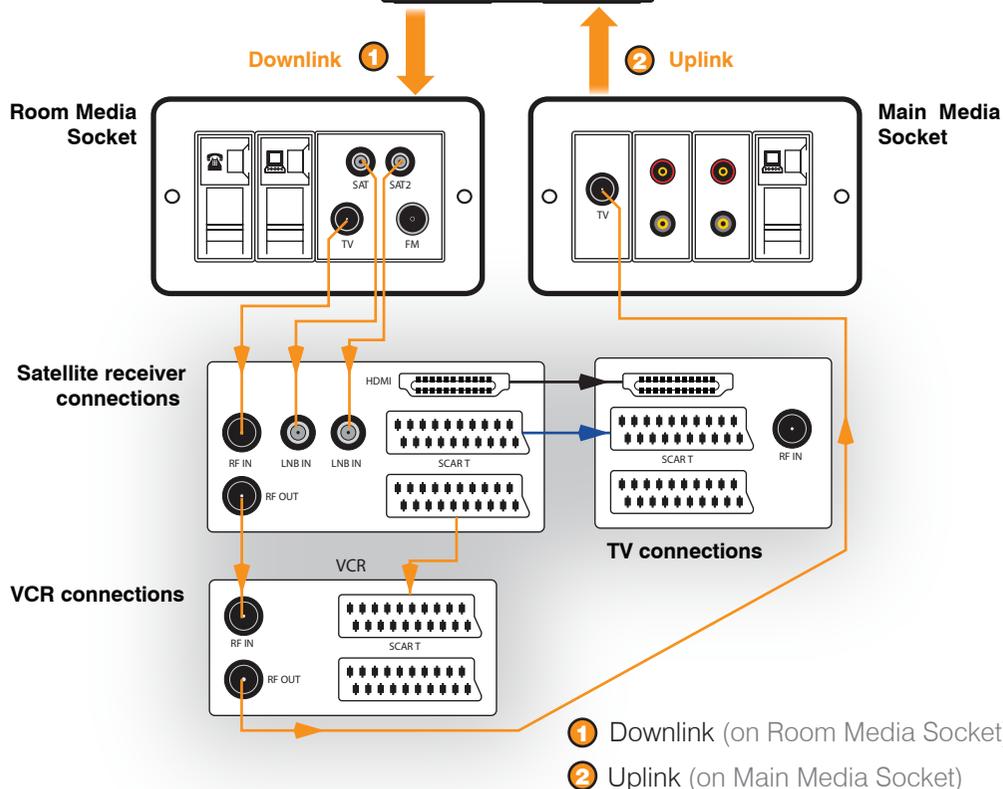
## TV Distribution - The Main Living Space

The TV system allows available analogue and digital terrestrial TV, satellite TV, FM and DAB (Digital Radio) signals to be distributed to the Main Living Space and to other Connected Rooms in the property. Playback from the the Main Living Space of a satellite or Freeview box is possible so that it may be viewed as a channel in other Connected Rooms.

Signals are mixed in the Distribution Panel and sent to the Main Living Space (the "downlink"). A signal needs to be sent back (the "uplink") to be viewed in other Connected Rooms, allowing a centrally watched satellite receiver for example - shown in the below example.



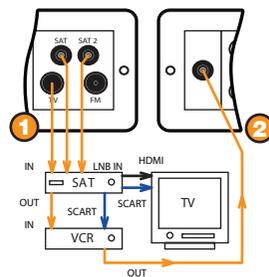
**!** Make sure there is a connection in place between the downlink and uplink in the Main Living Space at the Main TV Viewing Location or no signal will be present in other Connected Rooms.



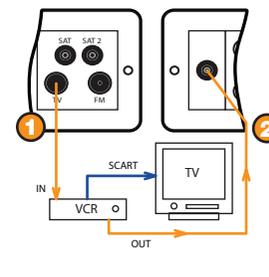
## Connecting Equipment - Main Living Space

Use the following as a guide to connecting equipment in the Main Living Space. It is important to ensure that the downlink and uplink are present.

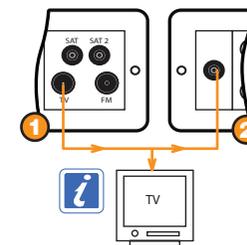
### VCR and Satellite



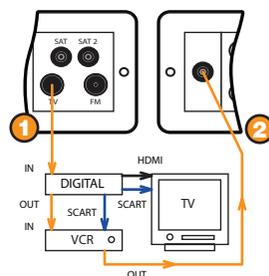
### VCR only



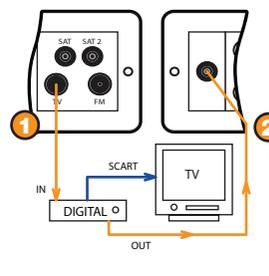
### TV only



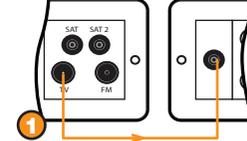
### VCR and Freeview



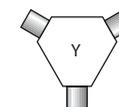
### Freeview



### No Equipment

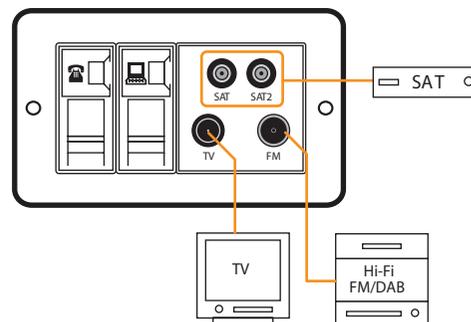


### Y Connector



A Y-Splitter will be required in some situations to ensure a signal is present on the uplink - ask your installer.

## Connecting Equipment - Connected Rooms



In Connected Rooms you will use the TV and FM sockets to connect your TV and FM/DAB radio. The SAT and SAT2 sockets are provisional sockets used to connect a satellite receiver to a direct satellite signal for a local Sky box if desired (this may require some connection work at the Distribution Panel, depending upon your configuration).



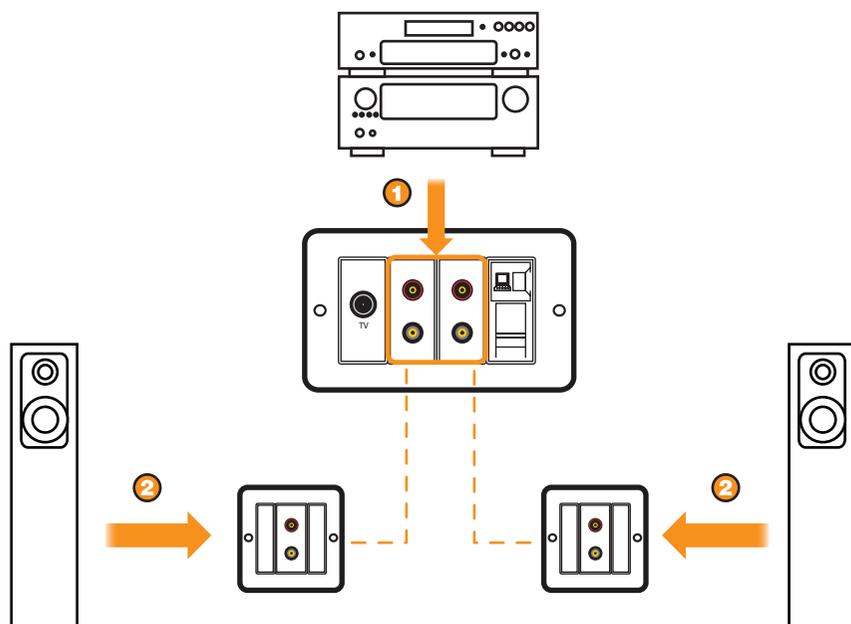
# Home Cinema

## Home Cinema - The Main Living Space

Rear Speaker Sockets are provided in the Main Living Space so you may add home cinema surround rear speakers without running additional speaker wires.

Each Rear Speaker Socket is connected to the Main Media Socket so you can connect rear speakers to an Audio Visual Receiver, Hi-Fi or Home Theatre System.

## Connecting Your Speakers

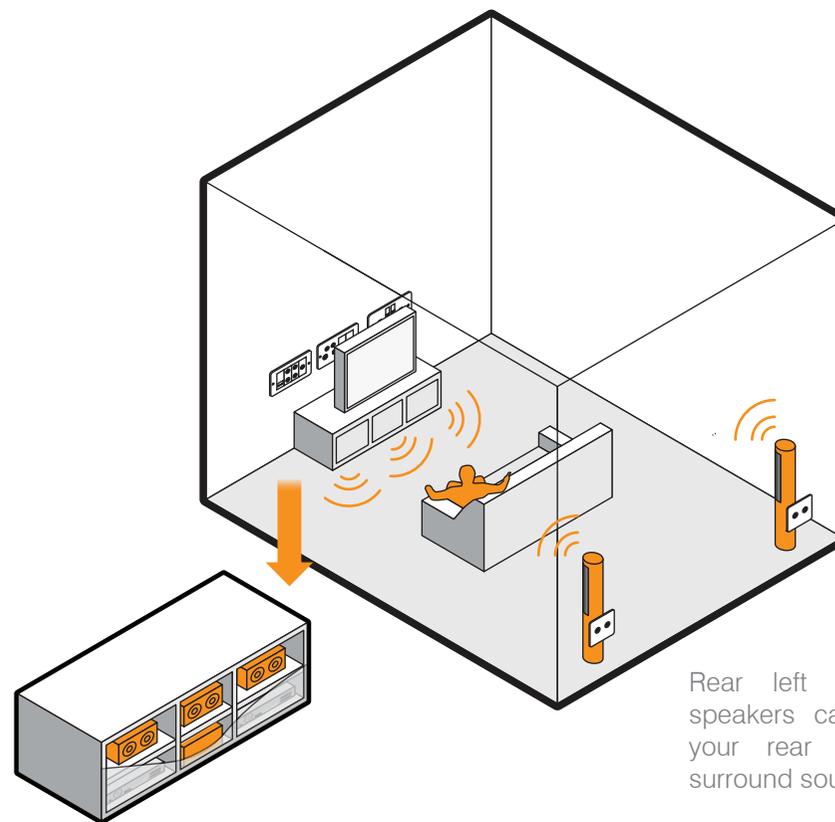


To connect to the Rear Speaker Outlets a 4mm speaker plug can be used - also called a 4mm 'banana' plug. These are often supplied with speakers and hi-fi equipment, otherwise ask your installer.

- 1 Connect the speaker connections on your audio device (such as a Hi-fi or Home Theatre System) to the Speaker Outlets on the Main Media Socket
- 2 Connect a speaker to the Speaker Outlet on the Rear Speaker Socket

## Creating a Home Cinema

The Rear Speaker Sockets can be used for a surround sound cinema, or you can use them just for music.



Rear left and right speakers can provide your rear audio for surround sound.

Add local front left, centre and right speakers and a sub-woofer for a 5.1 home cinema experience.



# The wiring in your home

This diagram shows a typical wiring schematic for a Digitally Plumbed home.

Incoming services are fed into the centralised Distribution Panel and can be sent to the different rooms of the home. Your installer may have pre-wired cabling for your incoming services only, meaning you may need to choose and contact a service provider or third party to install any TV aerials or satellite dishes, and choose your telephone, Broadband or cable provider.

The important thing is that your home already has cables pre-installed, so you do not have to retrofit new ones.

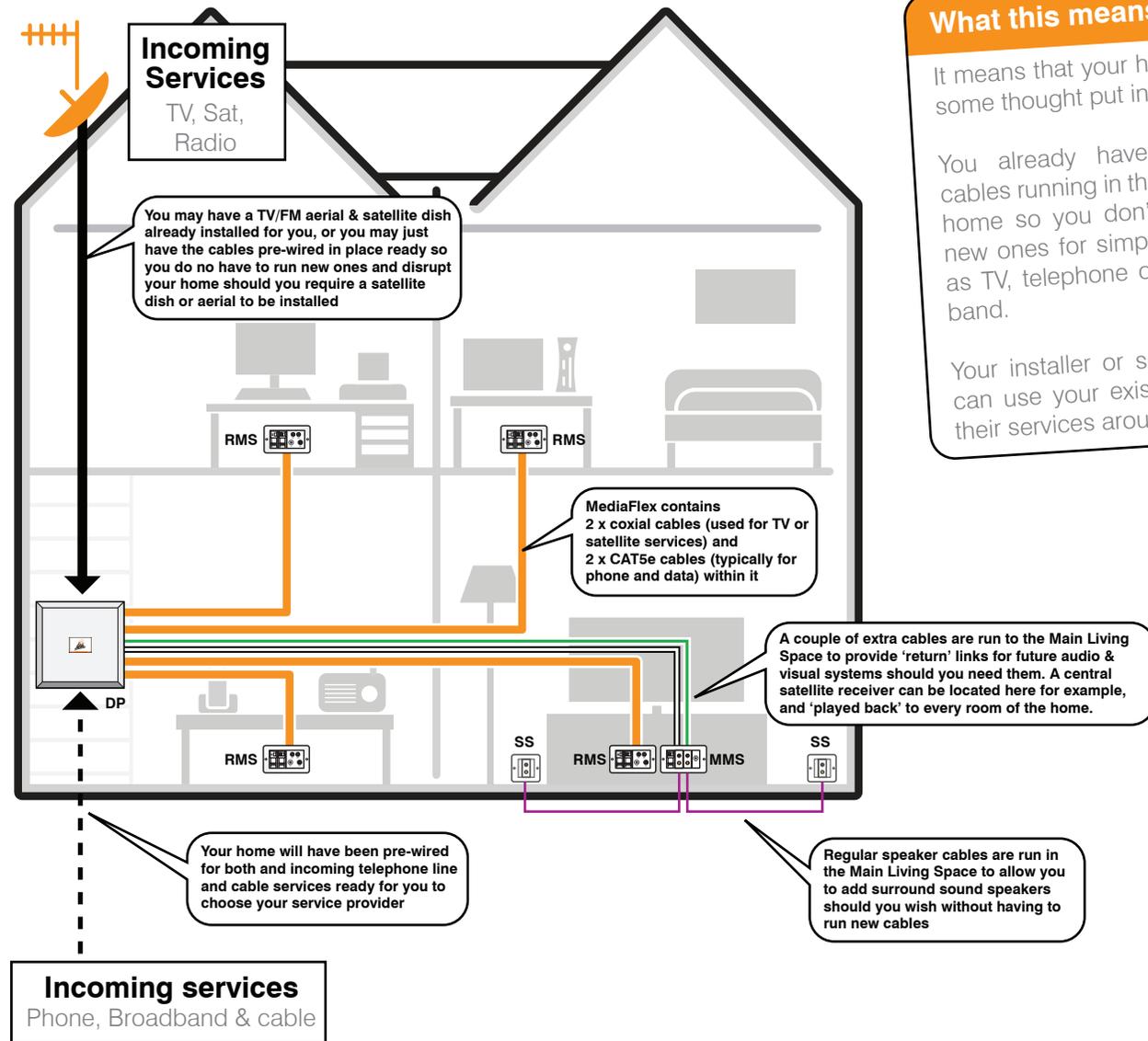
## Diagram key

**— = MediaFlex (multi core cable)**

**MediaFlex contains:**  
 1 x white CX100 coaxial cable (foam filled)  
 1 x black CX100 coaxial cable (foam filled)  
 1 x grey CAT5e cable  
 1 x red CAT5e cable

**— = 5 Core coaxial cable**  
**— = Single coaxial cable**  
**— = 42 Strand speaker cable**  
**— = Green CAT5e cable**

**RMS = Room Media Socket**  
**MMS = Main Media Socket**  
**SS = Surround Speaker Socket**  
**DP = Distribution Panel**



**What this means to you?**

It means that your home has had some thought put into it.

You already have the correct cables running in the walls of your home so you don't have to run new ones for simple things such as TV, telephone or even Broadband.

Your installer or service provider can use your existing cables for their services around the home.



# Aerial and satellite dish intallation information

## Things to know

Whether you are using an independent TV Aerial & Satellite installer to install your TV & satellite dish, or, just a satellite provider to install your satellite dish there a few things you should inform them of when booking the installation so they come prepared with the correct equipment and installation team. You may require a 'specialist height team' for instance if you wish to use the cables run to the roof space.

### Inform them of:

The type of property and number of storeys, and where you would like your aerials / satellite dish (at roof level for instance).

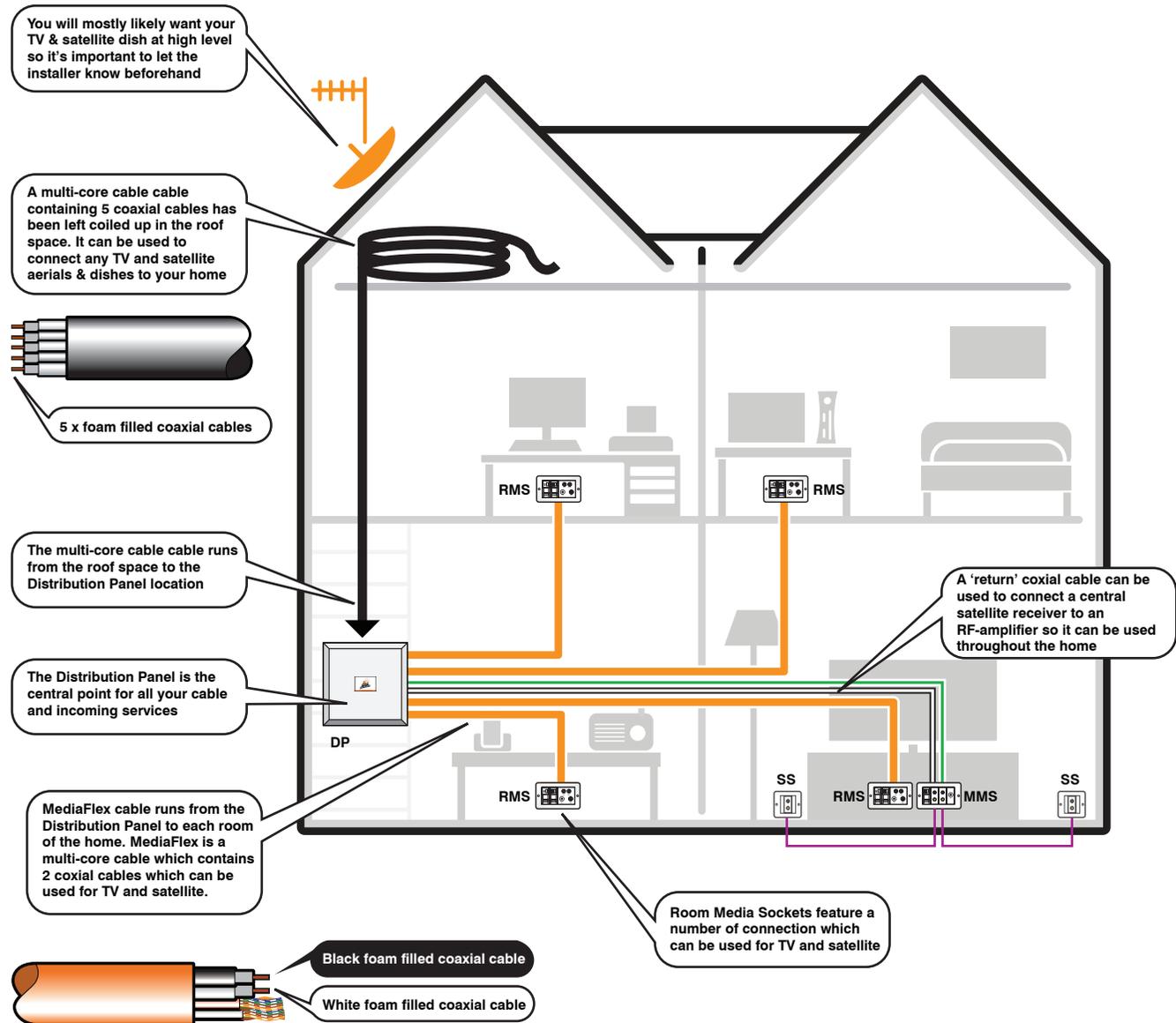
That you have a multi-core cable containing 5 coaxial cables pre-wired to the loft space of the property ready for aerials / satellite dish which will need pulling through. These cables are suitable for TV/satellite distribution.

You have coaxial cables pre-wired to each room throughout the property which are suitable for satellite distribution.

It may be useful to to show this sheet and manual to the installer on his arrival.

A number of other useful FAQ sheets, which may also be of use, are available on our the 'Support and FAQ' section of our website [www.digitalplumbers.com](http://www.digitalplumbers.com)

- FQ29** - Understanding the TV system
- FQ30** - Connecting a Sky Eye to the system
- FQ40** - Using the Loftbox TV amplifier
- FQ15** - Connecting a Sky digibox to the system
- FQ16** - Connecting a Sky+ digibox to the system
- FQ17** - Connecting a local Sky receiver to a secondary room





## Multi-room audio (pre-wire)



## Additional Useful information

This Owners Manual is intended as a user guide only. For additional information or technical installation information please refer to the FAQ sheets which are available from [www.digitalplumbers.com](http://www.digitalplumbers.com) or ask your installer. Some useful FAQ sheets are outlined below:

### Television and Satellite

**FQ29** - Understanding the TV system

**FQ30** - Connecting a Sky Eye to the system

**FQ40** - Using the Loftbox TV amplifier

**FQ15** - Connecting a Sky digibox to the system

**FQ16** - Connecting a Sky+ digibox to the system

**FQ17** - Connecting a local Sky receiver to a secondary room

### Notes

### Notes

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