

Electrical Requirements and Cabling Policy

The Digital Plumbers wiring system has been designed to give you the most flexibility with the least complicated installation. The Distribution Point (DP) uses standard patching to route Audio, TV, Sat, FM, Telecoms and Data signals to the rooms within the home. This is designed to be earthed, installed and terminated by the electrician.

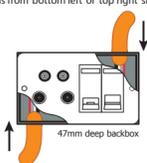
Use this drawing in conjunction with the Digital Plumbers Builders Bible. **Ensure any electrical work is carried out by a qualified electrician, observe Health and Safety precautions at all times.**

General

- Please ensure all exposed cables (or those run underground) are sufficiently protected.
- Please avoid any kinks, sharp bends, or breaks in the cable route.
- All cables should not be subjected to any pinching, twisting or applied loads.
- If sockets are not to be terminated, leave tails on all cables - 3 metres at the equipment site, 30 cm at a backbox.
- Label cables in a unique fashion using the supplied labels, fix near the backbox.
- Cables shouldn't run parallel to mains/lighting cables for any distance greater than 2m, unless at least 750mm apart. There are no problems if cables just cross at 90 degrees.
- Use 47mm deep backboxes for sockets.
- Ensure cable entry into backboxes is from 'bottom left' or 'top right' side (preferably 'bottom left') - this helps the ease of installation.

Multi Room Audio

- A single CAT5e cable runs from the DP to the Main Living Space, this provides the main audio source for the Connected Rooms.
- In each Connected Room a single CAT5e cable runs from the DP via the Active Speaker location in the ceiling void (where a 1.5m coil is left) to the Local Audio Socket. A separate single CAT5e cable connects the Active Speaker location to the Passive Speaker location, where a 1.5m coil is left.
- Check there is at least 100mm depth in any ceiling void for installation of the speakers.
- Label cables in a unique fashion using the supplied labels, fix near the backbox.
- Ensure cable entry into backboxes is from 'bottom left' or 'top right' side (preferably 'bottom left') - this helps the ease of installation.

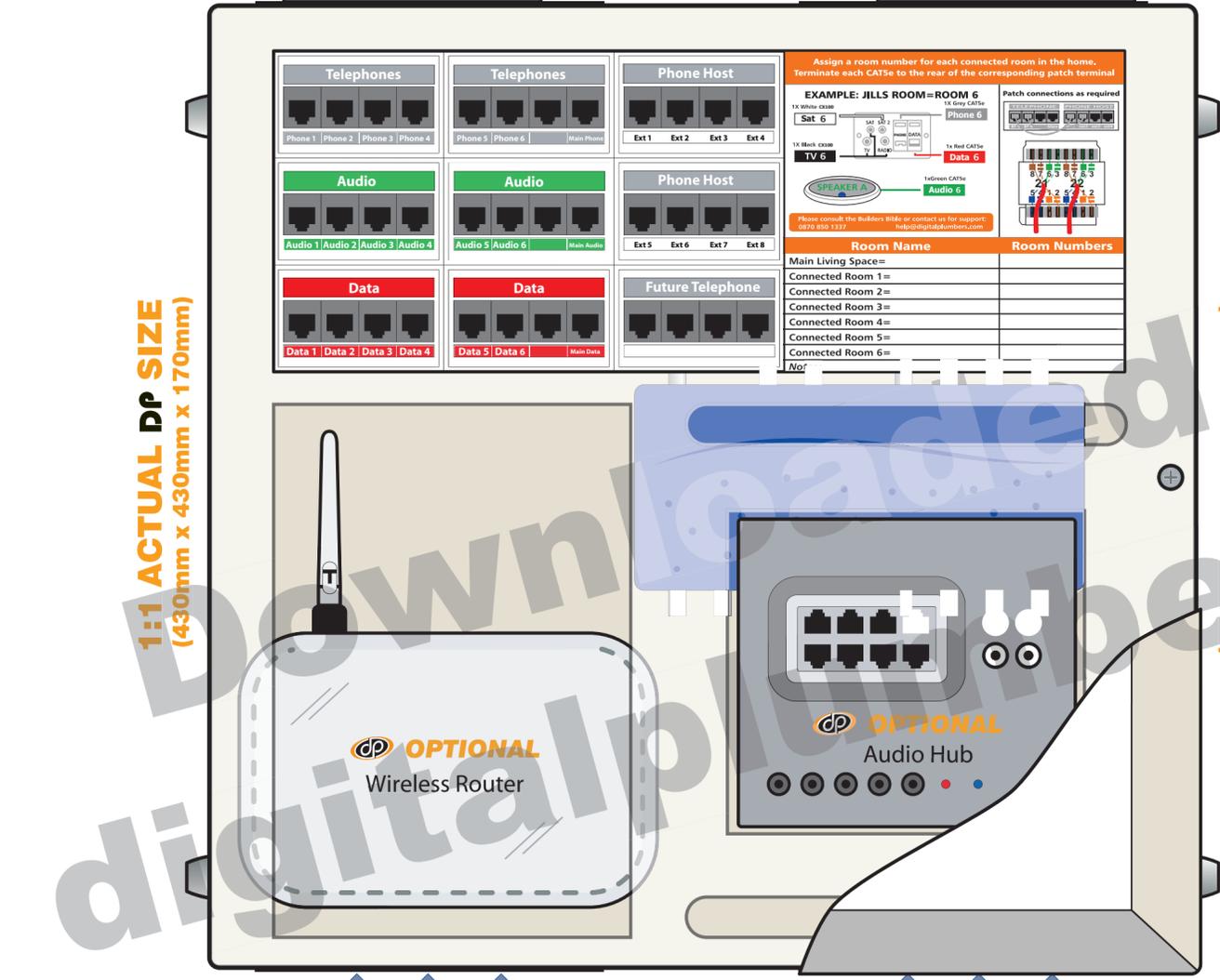
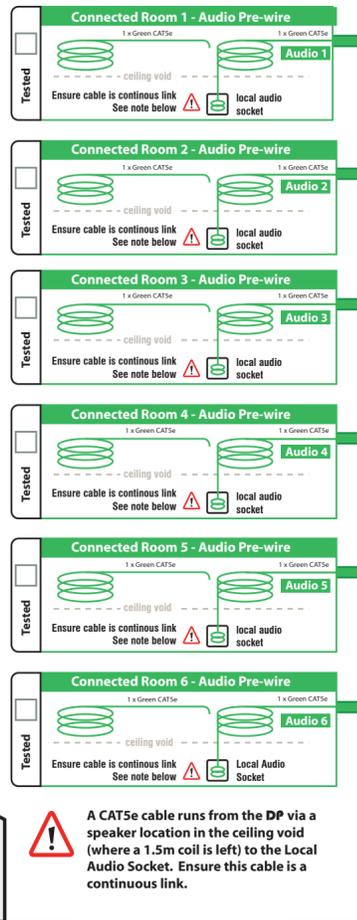


If possible enter the cable into the backbox by the bottom left cable entry slot. 47mm deep backbox

Cable Testing / Commissioning Sheet

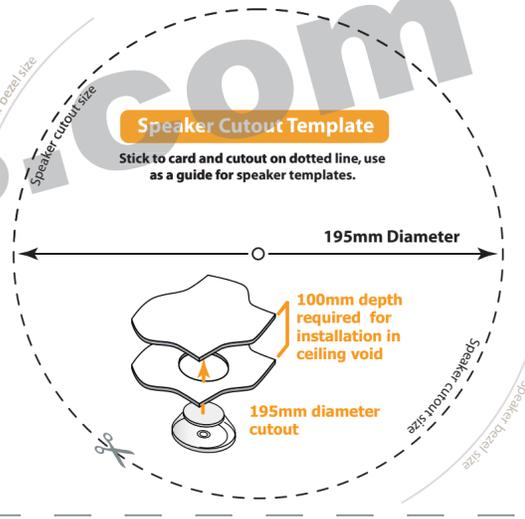
Test cables, fill out sheet, cutout and insert in plastic wallet in enclosure lid.

Room	Cable	Present	Passed	Date tested	Tested by	Notes
Main Living Space	Green CAT5e Main Audio					
	White CX100 Return Sat					
	Speaker Cable Left					
Connected Room 1	White CX100 Main Sat					
	Black CX100 Main TV					
	Grey CAT5e Main Data					
	Red CAT5e Data 1					
	White CX100 Sat 1					
	Black CX100 TV 1					
Connected Room 2	Green CAT5e to DP Audio 1					
	Green CAT5e local speaker					
	Red CAT5e Data 2					
	Grey CAT5e Phone 2					
	White CX100 Sat 2					
	Black CX100 TV 2					
Connected Room 3	Green CAT5e to DP Audio 3					
	Green CAT5e local speaker					
	Red CAT5e Data 3					
	Grey CAT5e Phone 3					
	White CX100 Sat 3					
	Black CX100 TV 3					
Connected Room 4	Green CAT5e to DP Audio 4					
	Green CAT5e local speaker					
	Red CAT5e Data 4					
	Grey CAT5e Phone 4					
	White CX100 Sat 4					
	Black CX100 TV 4					
Connected Room 5	Green CAT5e to DP Audio 5					
	Green CAT5e local speaker					
	Red CAT5e Data 5					
	Grey CAT5e Phone 5					
	White CX100 Sat 5					
	Black CX100 TV 5					
Connected Room 6	Green CAT5e to DP Audio 6					
	Green CAT5e local speaker					
	Red CAT5e Data 6					
	Grey CAT5e Phone 6					
	White CX100 Sat 6					
	Black CX100 TV 6					
Incoming aerial / satellite						
Incoming phone line						



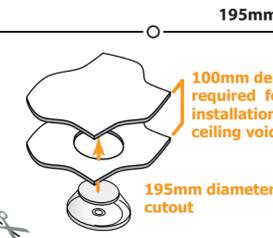
1:1 ACTUAL DP SIZE
(430mm x 430mm x 170mm)

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(430mm x 430mm x 170mm)



Speaker Cutout Template

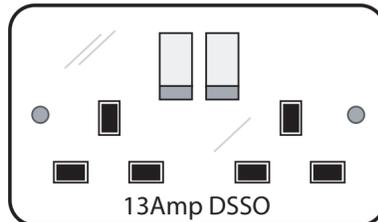
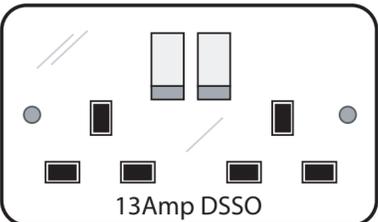
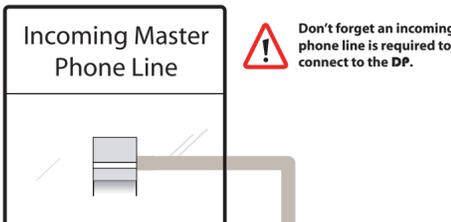
Stick to card and cutout on dotted line, use as a guide for speaker templates.



What is in the box / checklist

Checklist: you should of received this in the box

- DP**
 - DP Enclosure lid
 - DP Panel + swing frame
 - 1 x Swing frame locking screw
 - 4 x Enclosure lid locking screws
- CABLE**
 - 25m Speaker cable
 - 25m Green CAT5e cable
 - 25m White CX100 cable
 - 25m 4-pair BT cable
- SOCKETS / TV AMP**
 - 1 x Main Media socket
 - 7 x Room Media socket
 - 2 x Rear Speaker
 - 6 x Local Audio socket
 - 1 x TV Amp
 - 1 x TV Amp power supply
- GUIDES / LABELS**
 - DESIGN Builders Bible
 - INSTALL Builders Bible
 - Cable labels
- LEADS / CONNECTORS**
 - 2 x Phone host Leads
 - 8 x Grey patch leads
 - Punchdown tool
 - 5 x F-barrels
 - 18 x CX100 twists



The security panel dimensions are 250mmW x 190mmH x 50mmD, it requires connection to a phone line and a 13 Amp switched socket. The user will need easy access to the security panel shortly after arriving home.