

FTTH

BUILDERS GENERAL CHECKLIST

Information the builder needs to know



What You Need To Know

At Redtrain Networks, we like to keep things simple for our customers and partners. The purpose of this document is to help the builder / home owner prepare for connection with Redtrain Networks and to ensure that the service is connected with minimum delay.

Redtrain Networks requires the following guidelines to be met.

If these guidelines are not met, Redtrain Networks will not be able to deliver and activate services. Please ensure all requirements are ticked on the following check list set out by Redtrain Networks.



Getting Started

The following is a checklist of what must be performed by the builder/home owner to a home prior to Redtrain Networks installing the ONT (Optical Network Termination device) at the premises. Failure to make these arrangements may result in additional costs to the home owner.

It is important that you ensure all of the following requirements are met to avoid delays in the provisioning of telecommunication services by Redtrain Networks to your home.

CHECK LIST

- Installation of a continuous 32mm undamaged conduit from the stub conduit entering your property on an external wall of your garage rising 300mm out of the ground.

- If the conduit rises externally to the house, the conduit is to be terminated into a weather proof enclosure roughly 120mm x 120 mm. Lead in conduit then continued from the external adaptable box to the ONT enclosure.

- Ensure use of sweeping bends when installing the lead in conduit. Include nylon draw string, secured at both ends.

- Install ONU Cabinet (Maddison or a Starhub system) inside the garage which directly connects from the 32mm conduit.

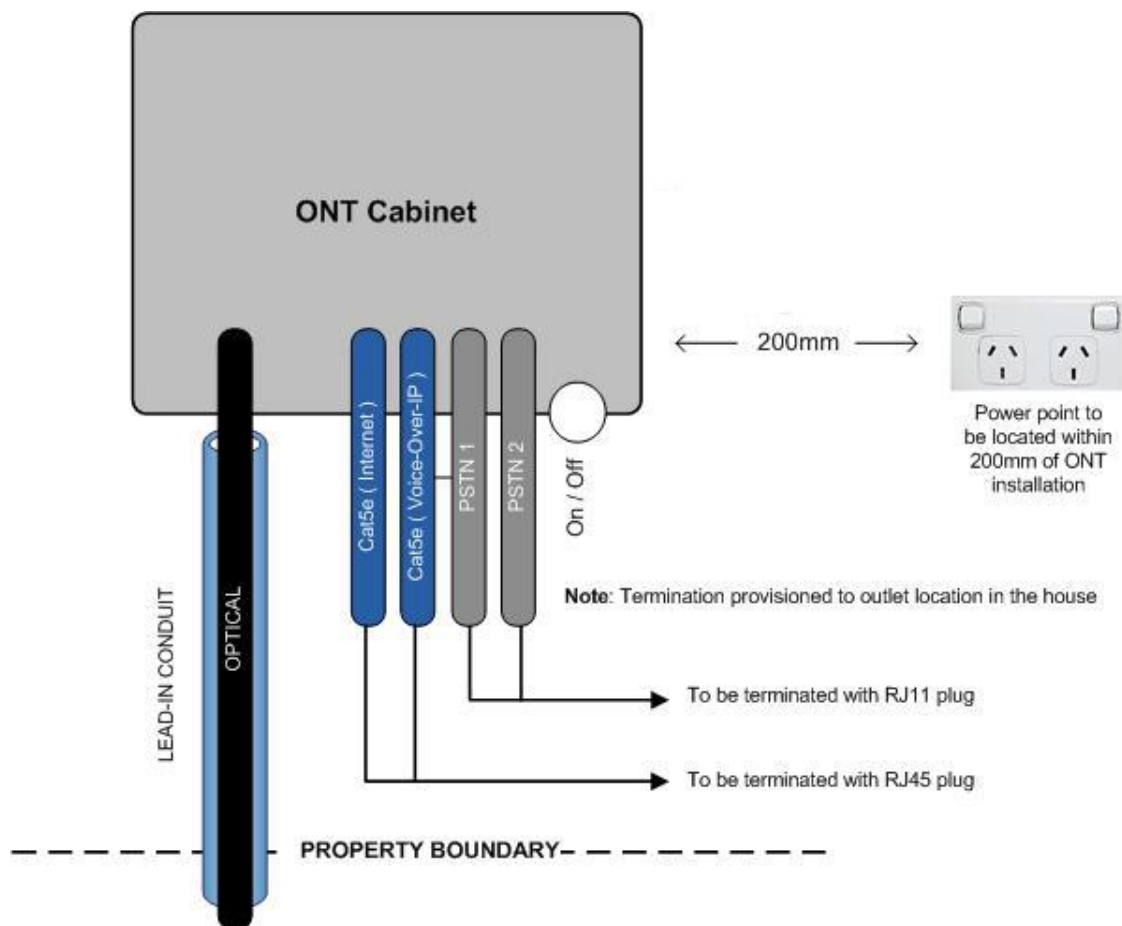
- Cabling technician has installed required cabling from house to ONT (refer to cabling advice outlined in the following page).

ONT (Optical Network Termination Unit) Installation

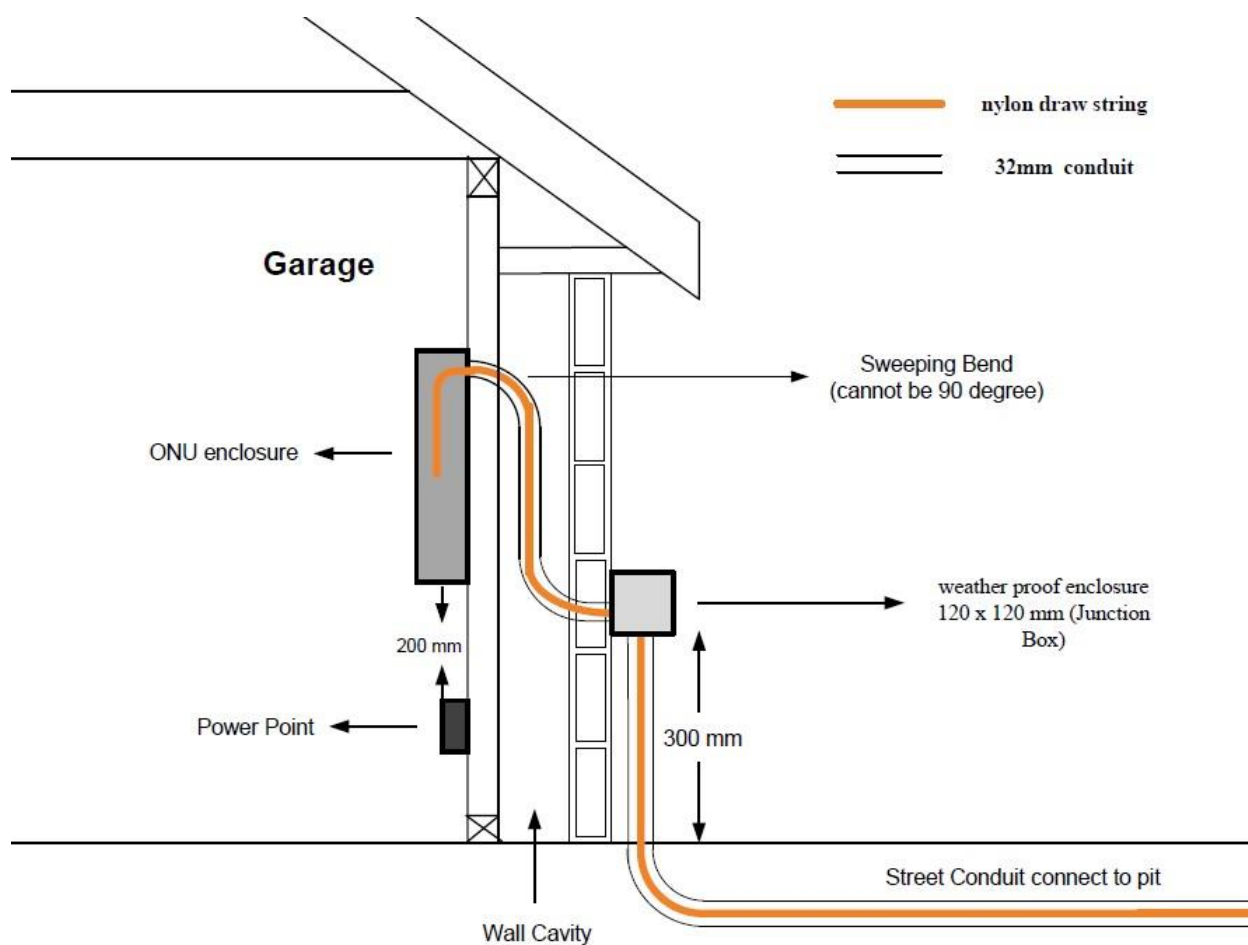
IMPORTANT NOTE

All customers cabling work **MUST** be carried out by a registered cabling technician and comply with all regulatory authority requirements.

Optical Network Termination (ONT) Requirements



Supply internal and external conduit paths





1. FTTH Internal Cabling Works

The FTTH Internal Cabling includes phone and data cabling only and will be installed by the Builder Cabling Contractor.

The FTTH Internal Cabling works comprise:

- Supply and installation (“rough-in”) of telecommunication wall plate mounting brackets at nominated wall plate locations;
- Supply and installation (“rough-in”) of CAT6 data cables (for telephone and computer/internet services) from the telecommunication wall plate locations to the ONT Cabinet;
- Supply, installation and termination (“fit-off”) of telecommunication wall plates and points (providing phone and data) to data cables at telecommunication wall plate locations;
- Termination (“fit-off”) of CAT6 data cables in the ONT Cabinet data cable patch panel; and
- The completion and installation of a data cabling schedule in the ONT Cabinet that identifies the cables to each room within the home.
- An ACMA TCA will be provided on completion of the FTTH Internal Cabling Works

Indicative schematic illustrations of the FTTH Internal cabling Works are shown Figure 1 and Figure 2 (using a notional single-storey house layout). The illustration defines the number and the indicative location of wall plates and the cabling layout of the ONT Standard Configuration in a house (see Figure 1 and Figure 2). Note: Lines from the ONT Cabinet (NTD) to wall plates shown in Figure 1 and Figure 2 are indicative only and are not required to be shown on the plans.

1.1 Mandatory FTTH Standard Configuration Internal Cabling requirements

The illustration in Figure 1 and Figure 2 below represents the mandatory minimum FTTH Communication wall plates and points required to be installed in all homes within the development as part of the FTTH Internal Cabling works to meet the FTTH Standard Configuration.

Note the minimum standard applies to both single storey and double storey homes.



1.2 Builder Cabling Contractor - FTTH Standard Configuration Internal Cabling Installation requirements

The Builder Cabling Contractor will be responsible for the installation of:-

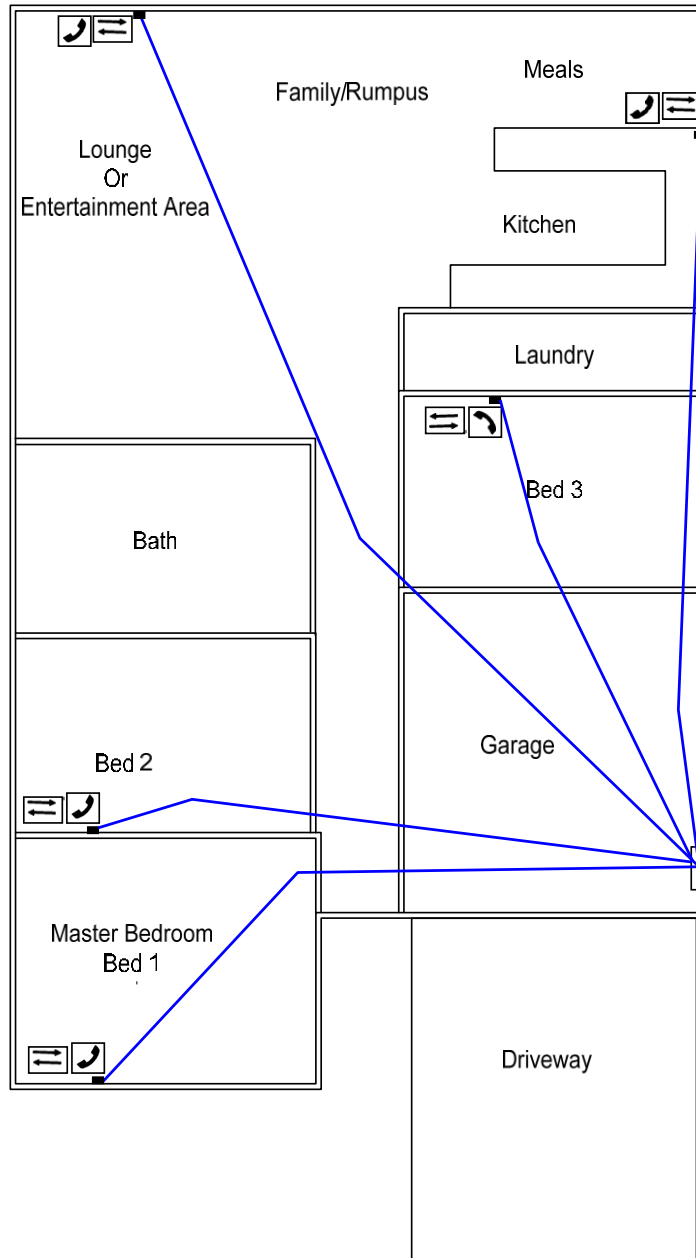
- Supply and installation (“rough-in”) of telecommunication wall plate mounting brackets at nominated wall plate locations;
- Supply and installation (“rough-in”) of CAT6 data cables (for telephone and computer/internet services) from the telecommunication wall plate locations to the ONT Cabinet;
- Supply, installation and termination (“fit-off”) of telecommunication wall plates and points (providing phone and data) to data cables at telecommunication wall plate locations;
- The completion and installation of a data cabling schedule in the ONT Cabinet that identifies the cables to each room within the home.
- An ACMA TCA will be provided on completion of the FTTH Internal Cabling Works

Note the nominated Telco Contractor will be responsible for:-

- ❑ Termination (“fit-off”) of CAT6 data cables in the ONT Cabinet data cable patch panel;




LEGEND: ■ = Wall Plate
 ☎ = Phone Outlet
 ⇄ = Data Outlet

Note – Lines from the Customer FTTH Cabinet to wall plates shown are indicative only and are not required to be shown on the Builder Electrical Plan(s)

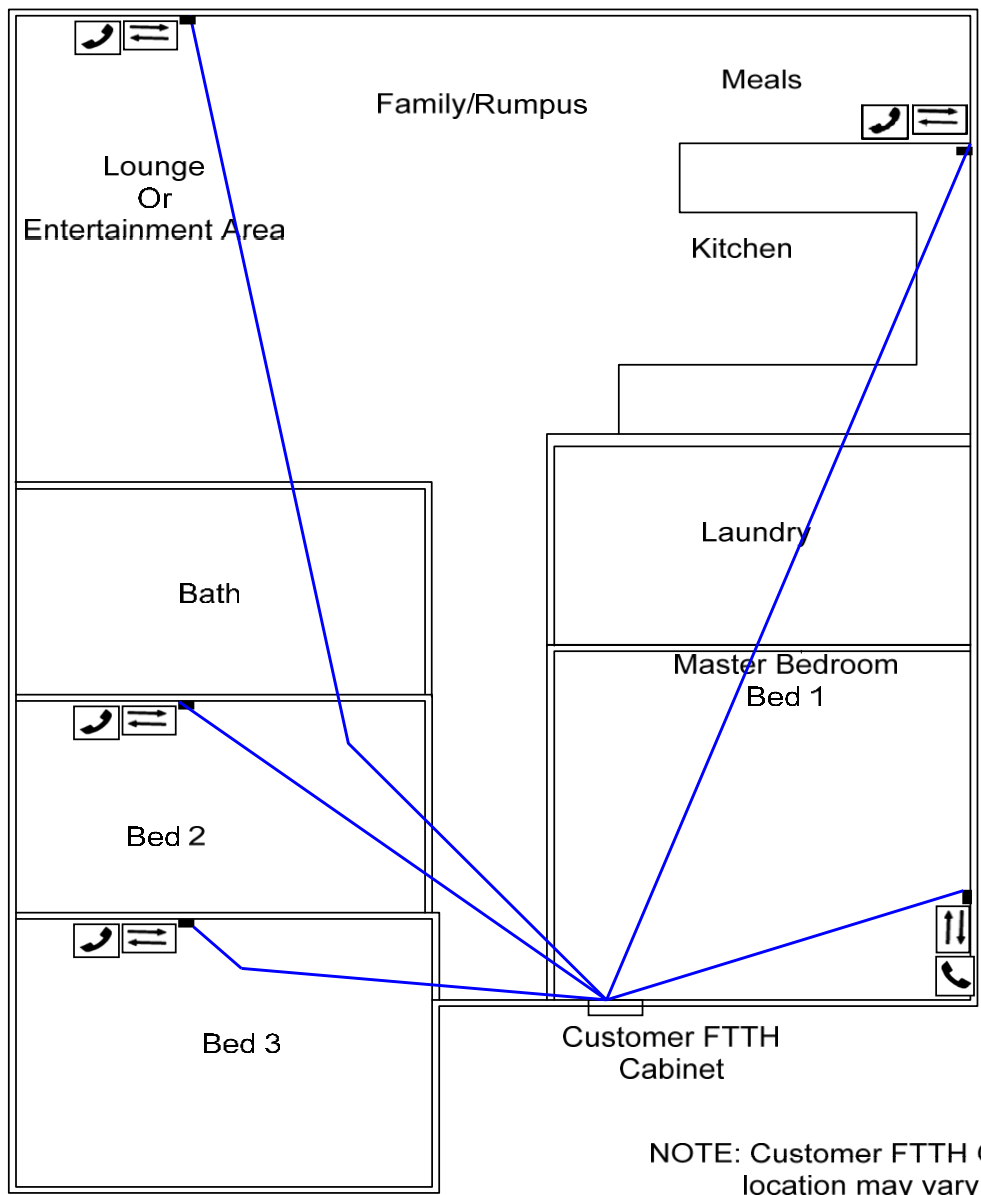


Typical Cable Plan – Separate Dwelling

Figure 1 - Mandatory FTTH Standard Configuration - Attached Garage

-  = Wall Plate
-  = Phone Outlet
-  = Data Outlet (Cat6 RJ45)

Note – Lines from the Customer FTTH Cabinet to wall plates shown are indicative only and are not required to be shown on the Builder Electrical Plan(s)



NOTE: Customer FTTH Cabinet location may vary.

Figure 2 - Mandatory FTTH Standard Configuration - Detached Garage

The illustration in Figure 3 below represents the mandatory minimum FTTH communication wall plates and points required to be installed in all homes within the development as part of the FTTH Internal Cabling works to meet the FTTH Standard Configuration.

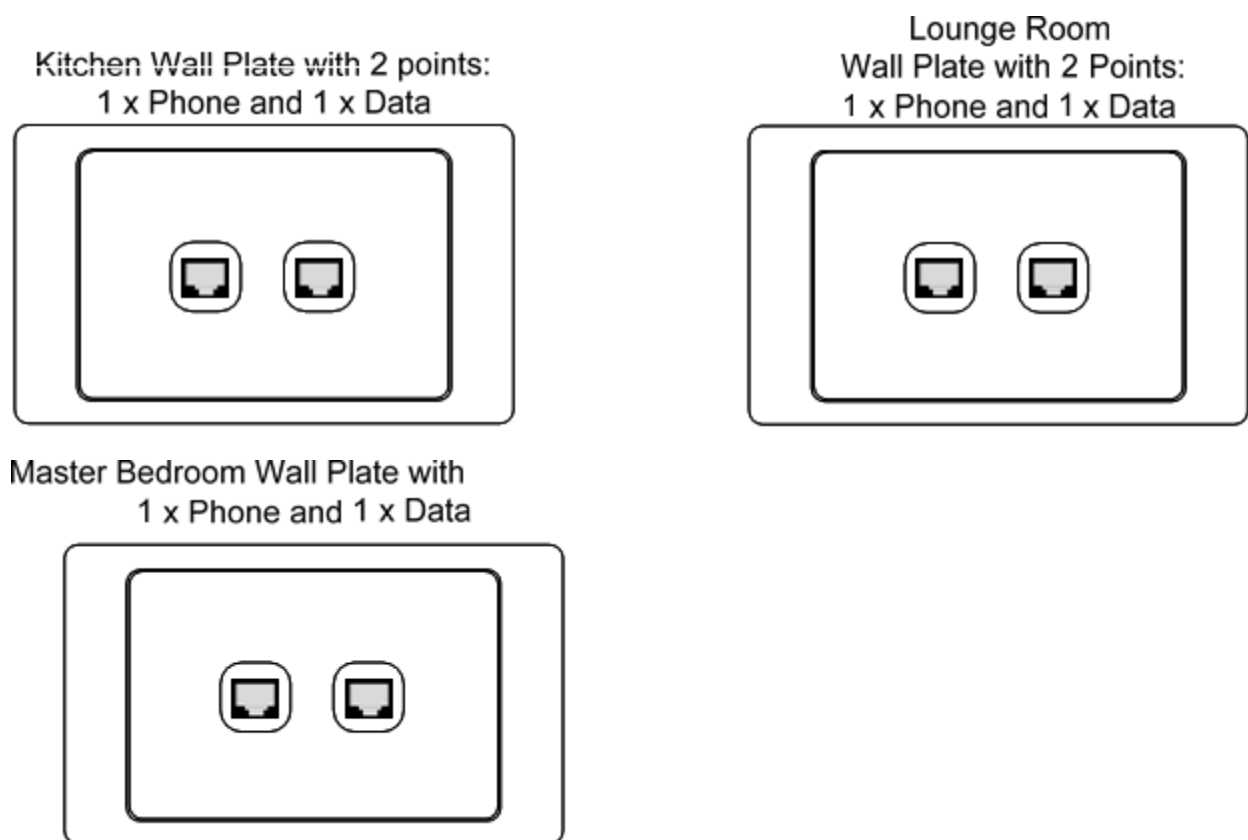


Figure 3 - Illustration of FTTH Wall Plates for Mandatory Minimum FTTH Standard Configuration

NOTE: As part of the FTTH Standard Configuration, the points must be grouped together on the same plate as shown, in each room. The minimum requirement points for each room must not be separated on different plates in a room. Also points must not be moved from the nominated rooms to other rooms e.g. points from Master Bedroom must not be moved to another bedroom or the kitchen point will not be moved to another bedroom or other room.



1.3 Certification provided by the Builder Cabling Contractor

Builder Cabling Contractor will, on completion of the FTTH Internal Cabling Works, provide to RedTrain Networks an ACMA Telecommunications Cabling Advice (TCA) form certifying the FTTH Internal Cabling Works for a period of 12 months. The TCA form will document:

- The business name of the Builder Cabling Contractor.
- The name of the person employed by the Builder Cabling Contractor responsible for the FTTH Internal Cabling Works.
- ACMA Cabling Provider Licence Registration.
- ACMA Cabling Provider Licence Number.
- ACMA Cabling Provider Licence category.
- A description of works completed.
- The date works were completed.
- Clear description of data and phone cable used by the cabling provider, that is:
 - For Data cable:-
 - Cable manufacturer – e.g. Clipsal Titanium series
 - Cable type – Cat 6
- Details of the testing instrument used in testing all data points, including manufacturer details and the most recent calibration date of the testing instrument verifying the test instrument passes carrier calibration requirements.
- Telecommunication “Cabling Schedule” identifying all data and phone points in each room.
- A statement certifying the Builder Cabling Contractor will be warranting the Telecommunication cabling (including wall points, data cable and phone cable and patching on the FTTH patch panel) against faulty workmanship and defects for a period of 12 months from completion date of FTTH Cabling Works.



General Enquiries

We understand that in today's fast pace living that time is important to you. If at any time you have a question please contact us directly on 1300 787 178. Alternatively if you don't have the time to call, please feel free to e-mail us directly at csp.support@redtrain.com.au. One of our consultants will be available to attend to your queries and if requested to do so, will call you back at a more convenient time.

For further information, please register your interest in
www.redtrain.com.au