Guide to installing fibre in multi-dwelling units

CHORUS

About this brochure

If your new property development is an apartment, retirement village, office, retail or multi-use block, where multiple users will share common infrastructure, it is most likely a multi-dwelling unit (MDU).

• If you are building or completely refurbishing an MDU that will require new connections, please follow the steps in this guide.

• If you are renovating an MDU and require no change in the number of connections, please contact your internet service provider to start the process.

This guide provides an overview of the work required to connect your new MDU development to our network so the occupants can access ultra-fast and reliable broadband services.

We understand that every building is different, so the information in here is only a guide.

Getting connected to our fibre network

Once you've agreed to the terms and made payment, there are a few steps involved to install fibre in your development and get it connected to our network.

1. Install a lead-in pipe from the street to the building

You'll need to install the Chorus supplied duct from the identified spot on the street boundary to the building entry point.

You'll also need to provide a route inside the building from the building entry point into your utilities room where our equipment will be installed.

2. Install fibre termination boxes inside the building

We will supply and install a fibre termination box in your utilities room and on each floor, usually in the riser, as required. A design plan will be provided identifying what type of box will be installed in each location. There needs to be at least 1.5m of working space in front of each box. The size of the box will determine the amount of wall mount space required, which is outlined in the Technical Requirements document.

3. Install fibre cable in the building riser to each tenancy

We will supply the internal rated fibre distribution cables that you will need to install from the fibre termination box in the utilities room, typically up the building riser to the box on each floor.

We will also supply the fibre drop cables which are to go from the box on the floor to each customer connection point. Where the cable is not re-accessible, we recommend installing the cable inside a 20mm conduit which allows for the cable to be easily replaced if there is any damage.

4. Installation within the tenancy

It is your decision where the connection point to the Chorus network will be within each tenancy. If you have commercial tenancies, it's a good idea to get the new occupant's input as relocating the connection at a later date will incur a fee.

We recommend that a home distributor hub (also known as the Star Wiring Box) is installed as this keeps all communication equipment in one place.

The home distribution hub (or other agreed location) is where the optical network terminal (ONT), a small device to which we will terminate the fibre, will be installed either as part of the pre-built fibre process or when future occupants connect to a broadband service. For more information about the hub, internal wiring and how to set this up, please read our guide to wiring homes for fibre and our premises wiring Technical Requirement document at **chorus.co.nz/develop-with-chorus**

5. Pre-built fibre

To make the connection process easier, we can install the ONT in each tenancy/unit when you're at the gibbing/painting stage. You can then market your development as being 'fibre ready'.
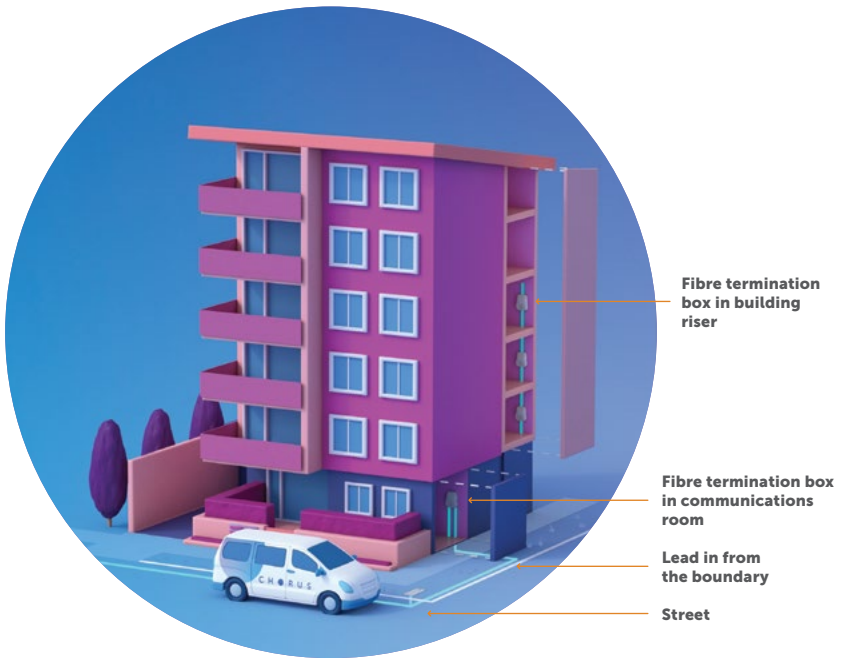
Being 'fibre ready' provides a better experience for the new occupants, as all they'll need to do is call their broadband provider to place their fibre broadband order – no further technician visits are required.

More information about pre-built fibre, including how to order it can be found on our website **chorus.co.nz/develop-with-chorus/preparing-to-connect**

Fibre equipment and infrastructure

This diagram shows the fibre equipment and infrastructure used to connect your development to our network.

Fibre termination box in building riser

Fibre termination box in communications room

Lead in from the boundary

Street

The information in this brochure is intended as a brief overview only. For full technical information and to ensure any work carried out meets the required standards, please read our Technical Requirement documents.

To register a new property development, read the Technical Requirements documentation or view our videos, please visit:

www.chorus.co.nz/develop-with-chorus

Activity checklist

Jobs for you:

Dig the lead-in trench from the street to the building entry point, install the lead-in pipe and complete all required reinstatement ○

Provide cable-mounting infrastructure within the building e.g. cable trays, ready for us to install the duct and cable leading up to the location of the first termination box ○

Supply and install materials such as velcro straps, cable ties, cable trays, screws, bolts and conduits within the building as required ○

Install fibre distribution and drop cables inside the building as per our design ○

Choose the connection location for each ONT, whether in a home distribution hub or elsewhere ○

Supply, install and test the internal wiring beyond the ONT in each tenancy ○

Jobs for Chorus:

We'll provide the design for the fibre lead-in, distribution and drop network, based on your plans ○

Supply duct for the lead-in and supervise installation ○

Install the fibre through the lead-in duct and into the first termination box in the utilities room ○

Supply to you all fibre distribution and drop cables to be installed inside the building ○

Supply and install all termination boxes and terminate the distribution cables and drop cables within the boxes ○

We'll complete all work required outside of the development to get fibre to the boundary ○

If you request pre-built fibre, then we will supply and install the ONT in each tenancy ○

Perform a quality audit and test the fibre network ○

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