Guide to lead-ins and trenching

Bringing our network from the boundary of a development site to the dwelling

CHORUS

Important things to note

1

An ETP must be installed at every dwelling to our required installation standards before we can connect properties within your development to our network

2

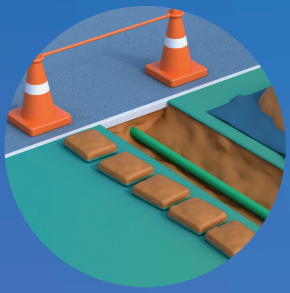
Every house must have an individual 20mm green lead-in pipe from our network access point on the boundary to the ETP with draw-tape

3

Chorus cables must have their own conduit – they are not able to share with power cables

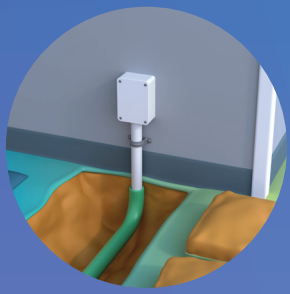
Once we've finished building our network to the outside boundary of a site, it needs to be connected to each dwelling through a lead-in pipe

Here's what you need to do



- Dig a trench from our access point on the boundary to where the external termination point (ETP) box will be located on the outside of the new dwelling
- Obtain and install the underground 20mm green lead-in pipe, and put a draw-tape inside
- Install the ETP at the end of the lead-in pipe – if not, Chorus will do this when we install the fibre. An ETP can be purchased from an electrical wholesaler or at **hexatronic.co.nz**

Here's what we'll do



Either as part of pre-built fibre, or when a installation order is placed, we will

- Install the ETP on the outside of the house, unless one has already been installed
- Bring the fibre cable from the access point on the boundary through the lead-in pipe located in the trench you've previously created, and connect it to the ETP

Please note:

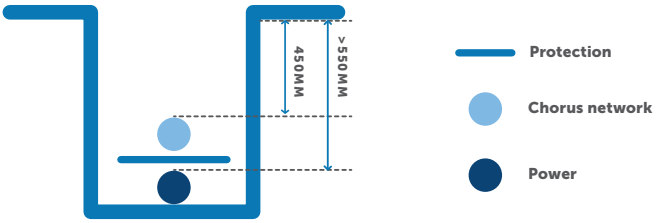
- For Multi Dwelling Units (MDUs) such as apartment buildings, or buildings with multiple connections which share infrastructure, there are specific requirements for lead-ins. This will be clarified as part of the design undertaken by our service company.
- If your Single Dwelling Unit building or stand-alone home is greater than 100 metres from the access point at the boundary, which is not down a RoW with other connections, there may be another solution than the green lead-in pipe.

When digging your trench

- Make sure you check the location of existing lines for telecommunications, power or other utilities – simply call **0800 248 344** (0800 B4U DIG)
- Before you select the trench route and start digging, make sure you check with Chorus where the network access point is located on the boundary. This is usually next to the power access point as the trench is usually used for both utilities. For Right of Ways with five or more dwellings, it's best to wait for the design plan from our service company to see what the ducting requirements are
- Make sure you identify the best location for the ETP – it should be situated on the side of a building near where the other utilities are sited
- Make the trench as straight as possible and avoid any sudden changes in direction or elevation. If it needs to change direction, ensure it's as curved as possible by using 90° swept bends with no sharp angles
- The trench depth should be at least 450mm below the finished ground level. Where the lead-in pipe is under permanent material like a concrete driveway, you can reduce the depth to 200mm
- If power is in the same trench, this should be laid at least 100mm deeper than our Chorus network, with protection material laid in between
- Gas and water and other services must be at least 300mm away from the power and comms lines, preferably in a separate trench. Please read our Technical Requirement documents on location of ETP from gas regulators
- Take extra care when digging within 500mm of any Chorus network (as indicated above you can identify the location of our network by phoning **0800 248 344** (0800 B4U DIG)
- If you accidentally damage a Chorus cable, please let us know by calling **0800 463 896** opt 2
- The underground 20mm (internal diameter measurement) green lead-in pipe can be purchased through any electrical wholesaler. It will only be available in six metre lengths so your vehicle needs to accommodate this. Make sure it has pre-formed bends to protect the Chorus cable and that a draw-tape is installed so we can pull our cable through the pipe. Note – continuous green pipe is for directional drilling and is not to be used in an open trench
- You will need to fill in the trench once the lead-in pipe has been laid and restore the ground

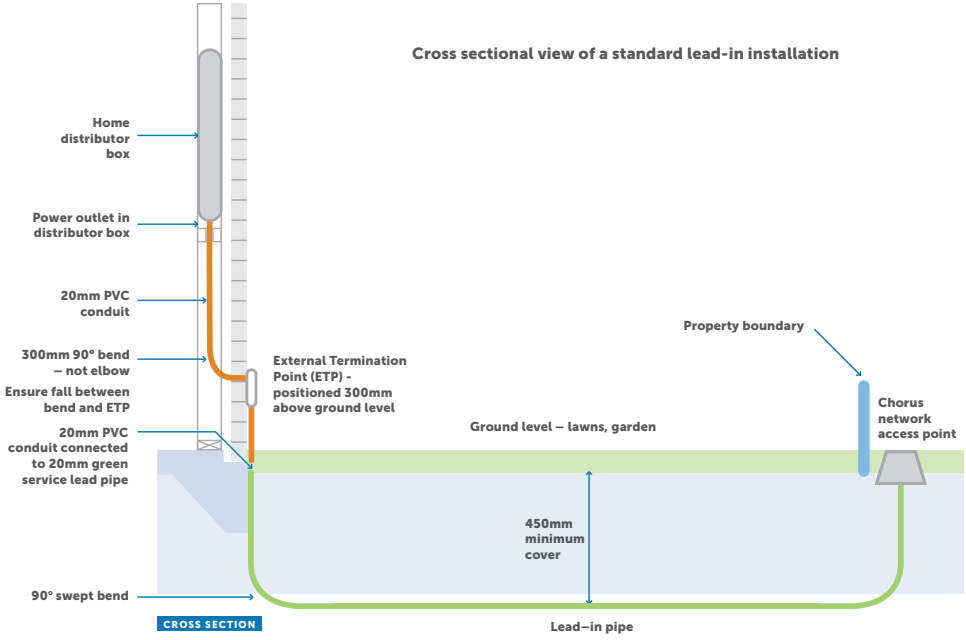
How power and broadband can use one trench

This diagram shows how you can install your power and broadband in the same trench. For more information and details on what protection is required please see our Technical Requirements document.



Lead-in installation

This diagram shows a cross sectional view of a standard lead-in installation.



Please note 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.

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chorus.co.nz/develop-with-chorus

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