Preparation & installation guide

for builders and developers

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Essentials, estate, phone and internet

Important: Make sure your TV connection goes back to your antenna/satellite dish location.

OPTICOMM Networks

Supplying conduit paths
from Opticomm

You'll need:

- Rigid white P23 telecommunications conduits with an internal diameter of 23mm, to be used in the trench connecting to the service drop conduit and within the house.
- Solvent cement for gluing all joints.
- Drawstrings to be installed in all conduits.
- Conduit saddles or similar to which conduits must be fixed securely.
- A power point (GPO) to be provided within 1500mm of the location of the Network Termination Device (NTD).

Supply paths:

- Make sure all conduits are running as straight as possible.
- Every bend radius of the street conduit must be no less than 300mm.
- Any internal conduit bend radius should be no less than 100mm.
- A maximum of 3 x 90° bends should be used between draw points.

Premises Connection Device (PCD) separations:

- 1.5m minimum side clearance from gas cylinders*
- 500mm minimum from services including:
  - » Downpipes and water taps
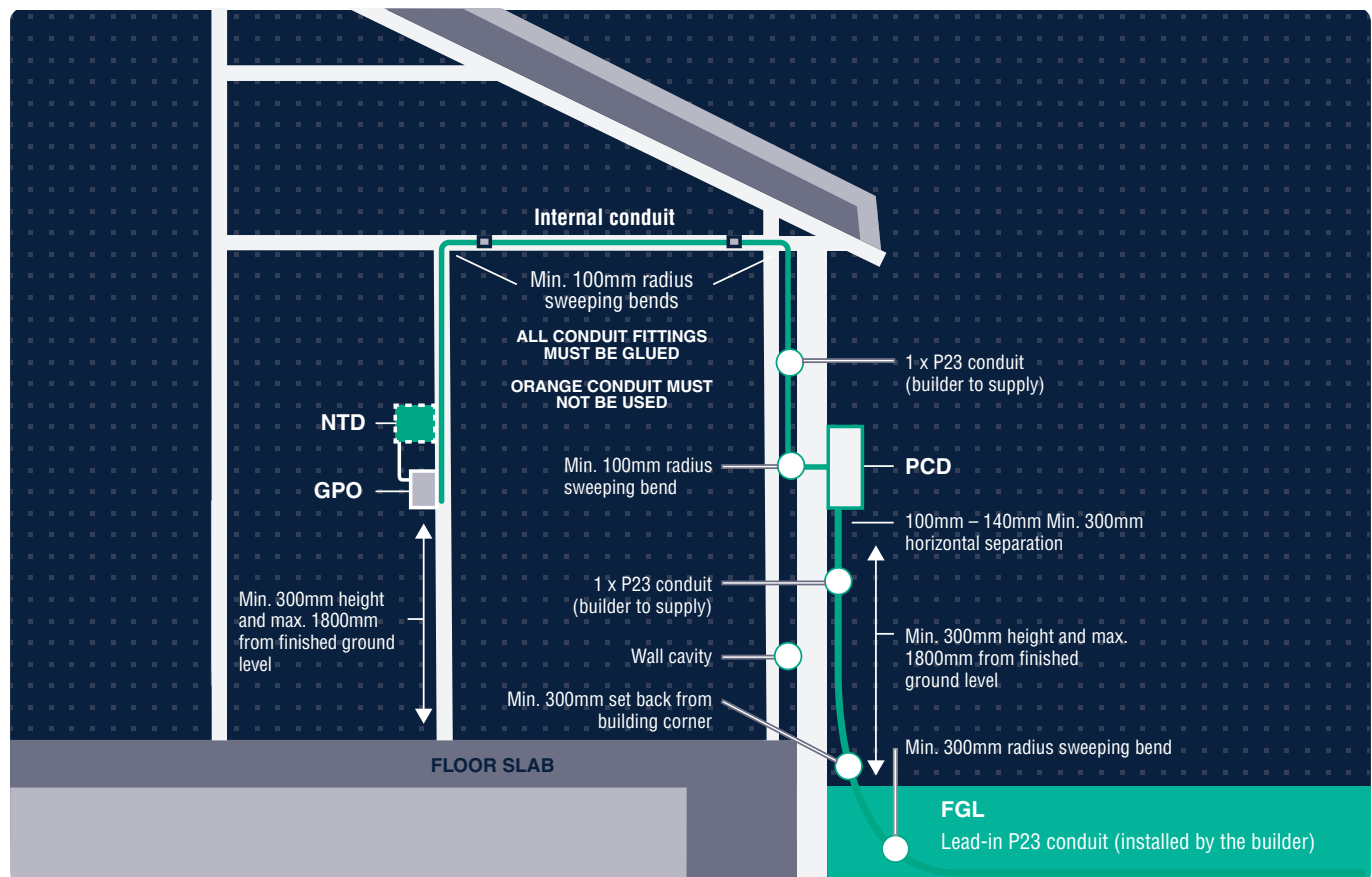 - » Electricity, gas* and water meter enclosures

*Please check with your local authorities for their separation rules.

Supplied materials from Opticomm

- P23 service drop conduit running from the pit to 1 metre inside the property.
- The PCD and service drop cable to the PCD location.
- The internal fibre optic cable from the PCD to the NTD.
- The NTD and NTD enclosure with a standard power supply.
- Battery backup unit if required during pre-installation.
- All fibre optic cables.

Internal P23 and lead-in conduit configurations

If your Network Termination Device (NTD) is in an enclosed space, for safety purposes you will need to install appropriate ventilation. Contact the connections team at connections@opticomm.com.au.

Diagram labels:
- Internal conduit
- Min. 100mm radius sweeping bends
- ALL CONDUIT FITTINGS MUST BE GLUED
- ORANGE CONDUIT MUST NOT BE USED
- NTD
- GPO
- Min. 100mm radius sweeping bend
- Min. 300mm height and max. 1800mm from finished ground level
- 1 x P23 conduit (builder to supply)
- Wall cavity
- Min. 300mm set back from building corner
- FLOOR SLAB
- 1 x P23 conduit (builder to supply)
- PCD
- 100mm – 140mm Min. 300mm horizontal separation
- Min. 300mm height and max. 1800mm from finished ground level
- Min. 300mm radius sweeping bend
- FGL
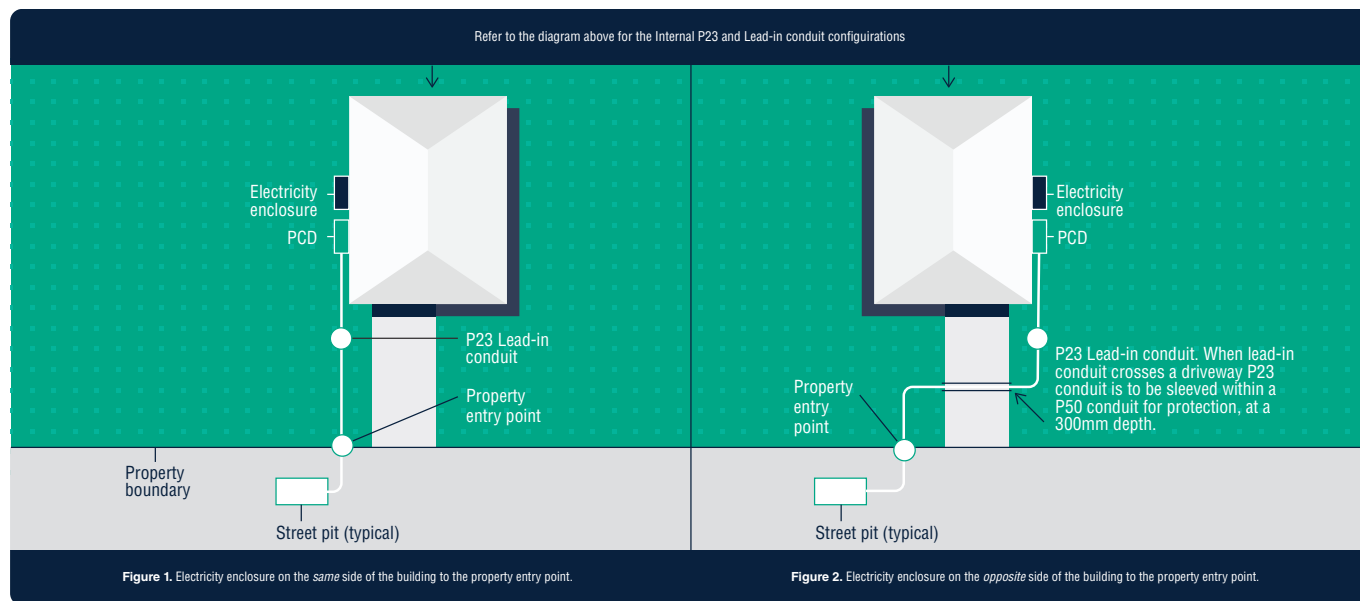- Lead-in P23 conduit (installed by the builder)

Preparing new developments
with Opticomm

How to prepare:

- Talk to new homeowners about which telecommunications services they're going to be using.
- Encourage owners who want to use IPTV via smart TVs or HD video conferencing to consider fixed cabling.

- Work with the homeowners to determine where Opticomm network equipment, phone and data outlets should be positioned.
- Ensure owners select a position for the equipment that's safe and convenient for connecting telephone, computers and internet TV.

Refer to the diagram above for the Internal P23 and Lead-in conduit configuirations

Electricity enclosure
PCD
P23 Lead-in conduit
Property entry point
Property boundary
Street pit (typical)

Electricity enclosure
PCD
Property entry point
P23 Lead-in conduit. When lead-in conduit crosses a driveway P23 conduit is to be sleeved within a P50 conduit for protection, at a 300mm depth.
Street pit (typical)

Figure 1. Electricity enclosure on the *same* side of the building to the property entry point.

Figure 2. Electricity enclosure on the *opposite* side of the building to the property entry point.

Get what you need
from Opticomm

Opticomm delivers national broadband fibre, both fixed line internet and telephone services to homes and businesses. To make sure your connections all run smoothly and are provided with minimum delay, you can request preinstallation of the in-home equipment the eventual owners or occupants will need to access the Opticomm network. Owners or occupants will also need to be registered with Opticomm once they move into the premises.
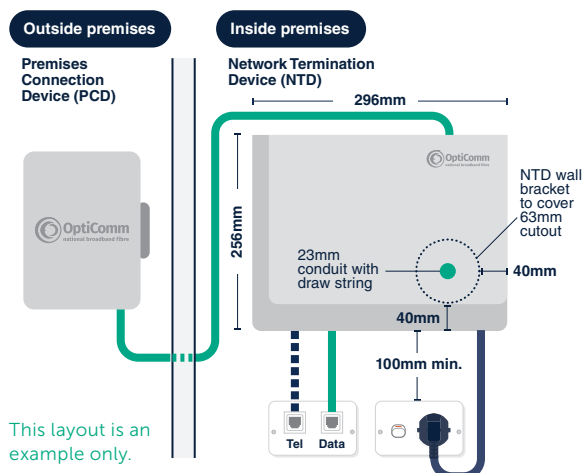
Information needed to arrange pre-installation:

- Confirmation all owners and/or occupants have given you the authority to make the request.
- Confirmation all owners and/or occupants have waived their right to be given notice of pre-installation from Opticomm (Schedule 3, Telecommunications Act 1997).
- Address/es of premises requiring pre-installation, including developer estate name and stage number.
- On-site contact person's details and confirmation you have their permission to release these details to Opticomm.
- Preferred date of installation.

- Date by which the address/es will be at secure 'lock up' stage and estimated completion or handover date/s.
- Confirmation of availability of power on site.
- Whether power supply with battery backup will be needed by the owners/occupants.
- Confirmation these guidelines have been followed and internal and lead in conduits have been correctly installed.

Wall space reservations

Opticomm equipment installed within the home

Outside premises

Premises Connection Device (PCD)

OptiComm
national broadband fibre

Inside premises

Network Termination Device (NTD)

296mm

OptiComm
national broadband fibre

NTD wall bracket to cover 63mm cutout

256mm

23mm conduit with draw string

40mm

40mm

100mm min.

Tel   Data

This layout is an example only.

Indoor installation only. Opticomm equipment must be installed in a weather protected location such as an enclosed garage or other location allowed under the cabling provider rules.

Get in touch with Opticomm

Welcome to the Opticomm preparation and installation guide. This document will help you to correctly prepare your premises and arrange connections to access the Opticomm network.

The guide has been created with builders, owners and developers in mind, where the developer has an agreement with Opticomm to provide optical fibre broadband to the premises within a new development.

OPTICOMM
Networks

www.opticomm.com.au