BRING YOUR NEW HOME TO LIFE
SO WHAT IS VELOCITY® HOME WIRING?

Telstra Velocity® home wiring lets you get your entertainment and communications from a single fibre-optic cable, instead of having to manage various copper wire connections and antenna/satellite dish installations.

While there are a few extra components to consider, your builder should be able to quote on wiring your home for Telstra Velocity, and once set up you’ll be able to enjoy the convenience of one connection.

TO PREPARE YOUR HOME FOR TELSTRA VELOCITY, YOU’LL NEED TO INCLUDE:

01. Dedicated Power Point
You’ll need to position a standard electrical power point inside your home, near where you want your Telstra Velocity Power Supply Unit (PSU) to go. For an indoor Optical Network Termination (ONT) the PSU must be within 1 metre of the ONT. For an outdoor ONT, this should be in a utility area like the garage, and will be as close as possible to the point where the optical fibre cable will enter your house.

02. Fixed Phone Connector
Your fixed phone will need a cable that runs from the ONT to the first telephone connection point (or central wiring point) inside your home.

03. Free-to-air (FTA) TV and Foxtel® Cabling
There has to be a cable from the ONT to the point inside where you’re planning to have your TV and Foxtel equipment (Foxtel is not available in all areas). If you’ll be having several FTA/Foxtel access points, this cabling will need to go to a splitter and then from the splitter to each access point.

04. Broadband Internet Cable
You’ll also need a cable from the ONT to the place where you’ll be putting your Telstra Velocity Gateway (such as the study, or a central wiring point). Your Gateway will then provide your internet access, firewall, plus both wired and Wi-Fi access for a number of your internet enabled devices.

Note: you need separate cables for your fixed phone and broadband services. Please let your builder know if you live in a Telstra Velocity estate, so they know they can’t provide the usual combined cable that would serve a copper wire connection.

05. ONT Earthing
Building designs that commence before 2014 may be based on an outdoor ONT being fixed to the outside of an external wall. In these cases your electrician needs to make sure there’s an earthing point that Telstra’s technicians will be able to use to earth the ONT. If your home’s earth electrode is not accessible from the ONT, an enclosed “Communications Earth Terminal” needs to be installed near the ONT’s location.

Telstra cannot guarantee continuity of video services like Foxtel and free to air TV, especially in the event of a network overbuild by NBN Co. You may need to install external antennas and satellite dishes if this happens.

<table>
<thead>
<tr>
<th>ABBREVIATED TERMS</th>
<th>EXPLANATION</th>
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<tbody>
<tr>
<td>FTA</td>
<td>Free-To-Air (TV)</td>
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<tr>
<td>STB</td>
<td>Set Top Box (for Free-To-Air TV or Foxtel)</td>
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<tr>
<td>ONT</td>
<td>Optical Network Terminator – the device that provides the telecommunication services</td>
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<tr>
<td>PSU</td>
<td>Power supply unit to run the ONT</td>
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<tr>
<td>RF SPLITTER</td>
<td>Radio Frequency (splitter) – a device that splits the TV/Foxtel signals</td>
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<tr>
<td>HD</td>
<td>Home Distributor (usually includes a phone/data “patch panel”)</td>
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VELOCITY® BASIC

A straightforward solution with minimal cabling is the Velocity Basic, which simply carries your services to their pre-planned locations. With less flexibility to move things around later, it’s an option that’s best suited to 1 or 2 bedroom homes and units.

Typically this configuration would allow for:

- 1 data point (for the internet)
- 2 telephone points
- 2 TV/Foxtel points.

Prior to connection of the services

| You and your builder will need to: | Telstra will:
<table>
<thead>
<tr>
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<tr>
<td>• provide a trench for the lead-in cable (commonly shared with the power and water services)</td>
<td>• install the ONT and PSU</td>
</tr>
<tr>
<td>• provide a power outlet adjacent to the ONT/PSU</td>
<td>• provide the optical fibre lead-in cable</td>
</tr>
<tr>
<td>• ensure sockets/wall plates are fitted and tested</td>
<td>• connect the home wiring to the ONT.</td>
</tr>
<tr>
<td>• ensure a category 5 or 6 cable is run from the data wall plate back to the location of the ONT (for internet services)</td>
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</tr>
<tr>
<td>• ensure a separate category 5 or 6 cable is run from the first phone wall plate back to the location of the ONT (for phone services)</td>
<td></td>
</tr>
<tr>
<td>• ensure a coaxial cable (RG6 quad shield) is run from each TV point to an RF splitter and then a coaxial cable is run from the splitter back to the location of the ONT (for FTA TV and Foxtel services)</td>
<td></td>
</tr>
<tr>
<td>• purchase a battery if you require battery back-up in the PSU.</td>
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Extra equipment

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<tr>
<th>You will need to:</th>
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<tr>
<td>• connect, or request Telstra to connect, the Telstra Velocity Gateway to the data socket and plug it into a power point (for broadband internet connection)</td>
<td>• send you a self-install kit including software and a Telstra Velocity Gateway for broadband internet connection or (if you request it) deliver you these items and install them for you.</td>
</tr>
<tr>
<td>• purchase a digital FTA Set Top Box (STB) (for FTA TV and only if you don’t have an integrated digital tuner built into your TV)</td>
<td></td>
</tr>
<tr>
<td>• have Foxtel install a digital STB (for Foxtel services).</td>
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HOW VELOCITY® BASIC WORKS

OPTICAL FIBRE LEAD-IN CABLE

EXTERNAL WALL

ON-T WALL BOX

ON-T OPTICAL NETWORK TERMINATOR

RF SPLITTER

PSU POWER SUPPLY UNIT POWER OUTLET

FAMILY/BEDROOM

POWER OUTLET TV PHONE

TV/FOxtel OUTLET

ENTERTAINMENT CENTRE

TV/FOxtel OUTLET PHONE OUTLET

PHONE

KITCHEN

POWER OUTLET PHONE PHONE OUTLET

DATA OUTLET POWER OUTLET COMPUTER

MINIMUM REQUIREMENT

Category 5 or 6 Cable
RG6 Coaxial Cable
Telstra-provided Cable

FOR MORE INFORMATION INCLUDING DETAILED DRAWINGS AND DESCRIPTIONS VISIT telstra.com.au/smartcommunity
VELOCITY® OPTIMISER

Ideal for 2 or 3 bedroom homes and units, Velocity Optimiser includes extra cabling that carries all your services back to one central point (your Home Distributor) – which gives you the flexibility to change your services around later, as your needs change.

TYPICALLY THIS CONFIGURATION WOULD ALLOW FOR:

- 4 telephone or data (internet) points
- Flexible cabling – each socket is capable of being a phone or data (internet) point
- 3 TV/Foxtel points (including a dual-socket point for the entertainment centre).

PRIOR TO CONNECTION OF THE SERVICES

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<tr>
<td>• provide a trench for the lead-in cable (commonly shared with the power or water service)</td>
<td>• install the ONT and PSU</td>
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<tr>
<td>• provide a power outlet adjacent to the ONT/PSU</td>
<td>• provide the optical fibre lead-in cable</td>
</tr>
<tr>
<td>• ensure sockets/wall plates are fitted off and tested</td>
<td>• connect the home wiring running from the HD onto the ONT.</td>
</tr>
<tr>
<td>• ensure a category 5 or 6 cable is run from each phone/data wall plate back to the location of the Home Distributor (HD) (for phone and internet services)</td>
<td></td>
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<tr>
<td>• ensure a coaxial cable (RG6 quad shield) is run from each TV/Foxtel point back to the location of the HD (for FTA TV and Foxtel)</td>
<td></td>
</tr>
<tr>
<td>• run an additional coaxial cable (RG6 quad shield) from the TV/Foxtel wall plate at the entertainment centre back to the HD location</td>
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<tr>
<td>• purchase a battery if you require battery back-up in the PSU</td>
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<tr>
<td>• cross connect the home wiring at the HD</td>
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<tr>
<td>• provide and run 2 x category 5/6 cables, 1 x RG6 cable and a conduit with a draw string or a Telstra-supplied PSU cable from the location of the HD to the ONT.</td>
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EXTRA EQUIPMENT

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<td>• connect, or request Telstra to connect, the Telstra Velocity Gateway to the HD Ethernet (for broadband internet connection)</td>
<td>• send you a self-install kit including software and a Telstra Velocity Gateway for broadband internet connection or (if you request it) deliver you these items and install them for you.</td>
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<tr>
<td>• purchase a digital FTA STB (for FTA TV and only if you don’t have an integrated digital tuner built into your TV)</td>
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HOW VELOCITY® OPTIMISER WORKS

**EXTERNAL WALL**

- **ONT** (Optical Network Terminal)
- **WB** (Wall Box)
- **PSU** (Power Supply Unit)

**HOME DISTRIBUTOR**

- **Category 5 or 6 Cable**
- **RG6 Coaxial Cable**
- **Telstra-provided Cable**

**FAMILY/BEDROOM**
- TV
- Phone
- Computer

**ENTERTAINMENT CENTRE**
- TV/FOxtel Outlet
- Phone or Data Outlet
- Computer

**STUDY**
- Phone
- Computer

**KITCHEN**
- Phone
- Phone or Data Outlet

**MINIMUM REQUIREMENT**
ONT & PSU MAY BE CO-LOCATED WITH THE HD

FOR MORE INFORMATION INCLUDING DETAILED DRAWINGS AND DESCRIPTIONS VISIT telstra.com.au/smartcommunity
VELOCITY® ENTERTAINER

Get the ultimate home networking and entertainment solution, with maximum flexibility built in. Velocity Entertainer brings all your service cables back to a central point (your Home Distributor) so you can change things around as and when you like.

TYPICALLY THIS CONFIGURATION WOULD ALLOW FOR:

• 1 telephone or data point (for phone and internet)
• 1 double TV/Foxtel point (for simultaneous FTA TV and Foxtel access)
• Provision is made for broadcasting in-home generated TV programs throughout the home from the entertainment centre.

PRIOR TO CONNECTION OF THE SERVICES

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<tr>
<td>• ensure two category 5 or 6 cables are run from each phone/data wall plate back to the location of the HD (for phone and internet services)</td>
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<tr>
<td>• ensure two coaxial cables (RG6 quad shield) are run from each TV/Foxtel point back to the location of the HD (for FTA and Foxtel)</td>
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<td>• run two additional coaxial cables (RG6 quad shield) from the TV/Foxtel wall plate at the entertainment centre back to the HD location</td>
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<tr>
<td>• provide and install a HD (“patch panel”) including at least one double power point</td>
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HOW VELOCITY® ENTERTAINER WORKS

EXTERNAL WALL

ONT

OPTICAL NETWORK TERMINATOR

PSU

POWER SUPPLY UNIT

POWER OUTLET

HOME DISTRIBUTOR

OPTICAL FIBRE LEAD-IN CABLE

Category 5 or 6 Cable

RG6 Coaxial Cable

Telstra-provided Cable

FAMILY/BEDROOM

TV

POWER OUTLET

PHONE

COMPUTER

TELEFONET OUTLET

PHONE OR DATA OUTLET

KITCHEN/FAMILY

TV

POWER OUTLET

PHONE

COMPUTER

TELEFONET OUTLET

PHONE OR DATA OUTLET

BEDROOM/STUDY

TV

POWER OUTLET

PHONE

COMPUTER

TELEFONET OUTLET

PHONE OR DATA OUTLET

ENTERTAINMENT CENTRE

TELEFONET OUTLET

POWER OUTLET

TV

PHONE

COMPUTER

PHONE OR DATA OUTLET

(MINIMUM REQUIREMENT)

ONT & PSU MAY BE CO-LOCATED WITH THE HD

FOR MORE INFORMATION INCLUDING DETAILED DRAWINGS AND DESCRIPTIONS VISIT telstra.com.au/smartcommunity

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