



27 November 2009

Premises Wiring subgroup
Telecommunications Carriers Forum

Dear Sir/Madam,

SUBMISSION ON THE CODE FOR RESIDENTIAL AND SOHO PREMISES WIRING DISCUSSION DOCUMENT

Counties Power wishes to make the following submission as part of the Code for Residential and SOHO Premises Wiring discussion document.

Counties Power's contact person in relation to this submission is:

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Counties Power's background

Counties Power is an Electricity Network company that serves the Franklin region.

In 2003 it established a broadband network company called Wired Country that provided broadband wireless and fibre optic cable services to Pukekohe, Buckland and Papakura.

Wired Country was sold to Compass Communications but the fibre optical network was later purchased back and Counties Power currently provides an open access dark fibre service on its network.

We currently serve six residential subdivisions with a fibre-to-the-home service and commercial/industrial premises with a fibre service, using other companies to provide the higher level Internet and Telephony services.

Through our experience in the construction, maintenance and operation of the fibre optic network and in particular for residential installations, we wish to make the following points in relation to the discussion document.

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Structure of our submission

Our submission comprises:

1. A general commentary on the discussion document
2. Items for consideration.

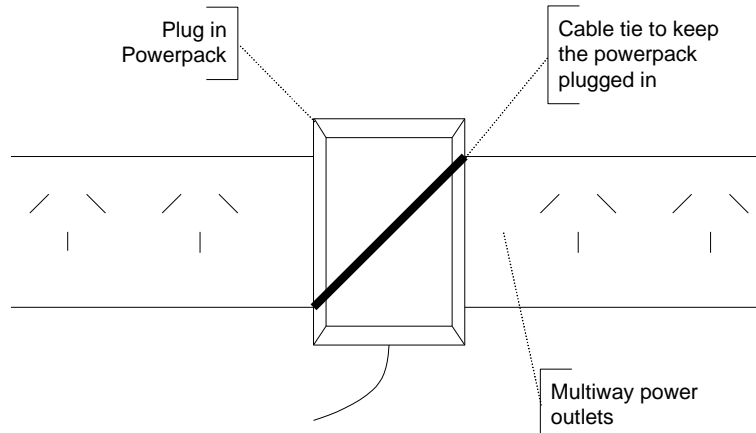
General Commentary

Counties Power supports the TCF's initiative to produce this Code of Practice. During our deployment of fibre to the home we were continuously educating developers and builders on the requirements for making houses fibre ready. We look forward to your document being widely adopted within the building industry.

Items for Consideration

We wish to raise the following items for consideration by the working group.

1. **Lightning Protection:** The addition of a paragraph highlighting the need to consider allowing for lightning protection for roof mounted antennas in high lightning risk locations. These locations may be the roof tops of high rise buildings or an isolated building on hills. This is relevant to both coaxial and cat 5e installations. A suitable earthwire should be made available for connection to the surge protection device before the cable enters the building.
2. **Distributor 230V ac power supplies:** Include a section on the layout of the distributor panel. In particular:
 - a. The location of the hotter devices such as the power supplies at the top of the cabinet so the heat from those devices does not heat up the other devices in the panel such as the ONT.
 - b. The location of the power strip to be at the top of the panel (Figure 7 will require altering) so that the heat generating plug-packs are located at the top of the panel.
 - c. A recommendation that any multiway strip can accommodate side by side power packs. This will typically require a multiway strip that has the outlets spaced further apart than normal. If a normal multiway strip is used then every second outlet becomes unusable.
 - d. The fixing of the multiway strip to the panel should be via standoffs so that a cable tie can be wrapped around the power pack and the multiway strip to prevent the power pack from becoming unplugged during normal operation. The power pack may become unplugged due to: the multiway strip becoming weakend due to age or heat; vibration such as washing machines or traffic; or minor earthquakes. The earthquake consideration is important as the fibre may be used for lifeline services.



- e. The multiway be fitted with surge protection to protect the equipment within the distributor panel from damage caused by spikes and surges on the 230Vac supply.

Please contact us if you wish to discuss any of these items.

Yours faithfully,

Peter Ensor
Business Development Technical Project Manager