



Coms Cabling Regulations & Standards Update

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Regulations
By
ACA

The code was developed by the Australian Communications Industry Forum.

New rules to enable higher-rate broadband services

Industry will be able to deliver higher-rate broadband services through local telephone lines, in a state known as the unconditioned local loop service (ULLS), following the recent registration of an industry code and technical standard by the ACA. The trend for higher-rate broadband services over traditional telephone cabling underlines the importance of ensuring best practice in the installation and maintenance of customer cabling.

The new code and standard enable higher-rate digital subscriber line (DSL) based services. These allow faster Internet browsing and access to multimedia applications such as streaming video and video conferencing. The new rules ensure that the integrity of the existing systems will be maintained and they minimise the risk of interference between systems.

The code sets out performance requirements and deployment rules that network operators must follow when they operate systems on the ULLS. The standard complements the code by specifying the technical requirements for all customer equipment used with services supplied under the code.

For certain technical and commercial reasons, the higher rate DSL-based broadband services might not be possible on all telephone lines.

Managing interference from Broadband over Power Line

The ACA is calling for public comment on possible ways to manage interference from Broadband over Power Line (BPL) communications. BPL communications is an emerging technique that uses electricity networks to transmit data, voice and video.

The challenge for the ACA is to establish arrangements that did not unnecessarily inhibit BPL deployments but protected radiocommunications services from unacceptable interference. Using the electricity network to carry BPL signals will result in leakage of radiofrequency emission into the surrounding environment. Interference could potentially affect defence operations, shortwave broadcasting, maritime and aeronautical communications, radio astronomy, amateur radio and numerous short range applications.

Submissions and comments on the options in the discussion paper would assist the ACA to develop arrangements to manage interference from BPL communications systems. The closing date for written submissions on the discussion paper is Friday 24 June.

The discussion paper can be found on the ACA website.

For more information about any of the above matters, please call the Customer Cabling Team on 03 9963 6800.



**TECHNICAL
By
Milcom**

**PRE CABLING NEW INSTALLATIONS
IN COMPLIANCE WITH THE
CARRIER'S SPECIFICATION – PART B**

Following on from PART A of the article published last month in ACRS News, you can now cable from the Network Boundary Point (NBP) to any other Telecommunications Outlet (TO) that the customer may require. The cabling from the NBP to any other outlet shall be done in compliance with AS/ACIF S009 as mandated by the ACA.

Now we need to make provision for the Lead-In Cable that the carrier will install from the Property Entry Point (PEP) to the NBP. This has to be looked at in two parts:

Part 1: Cabling from the PEP to the Building Entry Point (BEP), the external part of the installation.

Part 2: Cabling from the BEP to the NBP the internal part of the installation.

Cabling from the PEP to the BEP.

The following section is from Telstra's technical specifications Appendix 5, Part 1 Cabling of Detached or Semi Detached Buildings – Installation of Underground Lead-In Cable:

“Under the terms and conditions of Telstra's Standard Form Of Agreement (SFOA) for the supply of carriage services, the customer is required to arrange and pay for suitable trenching (clearing, digging and reinstatement of land) from the Telstra PEP to the BEP.

As Telstra requires customers to provide the trenching to install Telstra cabling, customers are entitled to seek guidance from Telstra as to where the trench should go.”

What is the recommended route?
Identify the PEP, this is done by identifying where the suitable Telstra plant is located,

typically a pit. Note, if in any doubt you must consult with a Telstra representative and document the advice.

Follow the guidelines below to get the Lead-In cable from the PEP to the BEP in accordance to Telstra's specification Appendix 5, Part 1 Cabling of Detached or Semi Detached Buildings – Installation of underground Lead- In cable. *“In general, the Lead-In trenching should follow a direct path across the customer's property to the Telstra starter conduit or pit — even if this necessitates trenching across the front of the building. Lead-In cabling should not be run alongside the boundary of the customer's property (eg. along the footway) for any significant distance to move the PEP except in extenuating circumstances such as: ? due to difficult terrain (rocky ground, trees, etc.); ? to avoid major obstacles (buildings, swimming pools, etc.); or ? to make good a Telstra error (e.g. wrong or ambiguous trenching advice); (Telstra is not obliged to accept and use trenching that is not suitable or that has been arbitrarily run to the wrong location at the property boundary or building by the builder or customer. On the other hand, Telstra may be obliged to accept trenching that has been provided in accordance with Telstra instructions if those instructions turn out to be erroneous — or provide the correct trenching at Telstra's cost.)”*

The location of the BEP should be located adjacent to the electrical switch board.

The conduit used for the Lead-In cable must be White or Black and, if black, shall have a white stripe. All conduits must be clearly marked “Telstra”, “Telecom” or “Communications Cabling” no other type of conduit will be accepted.

This shall be continued in Part C, keep reading and if you have any questions please do not hesitate to contact the author on 1300 369 320.

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