



GTC Fibre Integrated Reception System Technical Standards - FIRS



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1. INTRODUCTION

The Fibre Integrated Reception System (FIRS) provides the ability to distribute a full range of digital television signals (satellite and terrestrial) and DAB/FM radio from a central location to all individual premises on the site via the fibre network.

This document is designed to enable you to undertake all required in-home works to ensure your homeowners get the maximum benefit of FIRS technology and have the best possible experience.

This document should be read in conjunction with *the GTC Technical Standards – Fibre GF-TGI-IG-0016* document and should be treated as an appendix to that document.

2. FIBRE IRS GTU INSTALLATION

The TV signal is distributed around the site using the fibre optic infrastructure. Within the home the fibre optic cable is connected to a FIRS GTU which is located adjacent to the Home Hub box. Coax cables are used to distribute digital television and DAB radio signals from the FIRS GTU to points around the home that have been terminated with the appropriate faceplate.

The Fibre IRS GTU provides four outputs. This unit provides four signal outputs which can be wired to support devices with recording facilities requiring two signal feeds such as Sky+ or Freeview+ or single feed devices with no recording capability. See the section below for more details.

Figure 1 illustrates the recommended layout showing the FIRS GTU located adjacent to the Home Hub box.

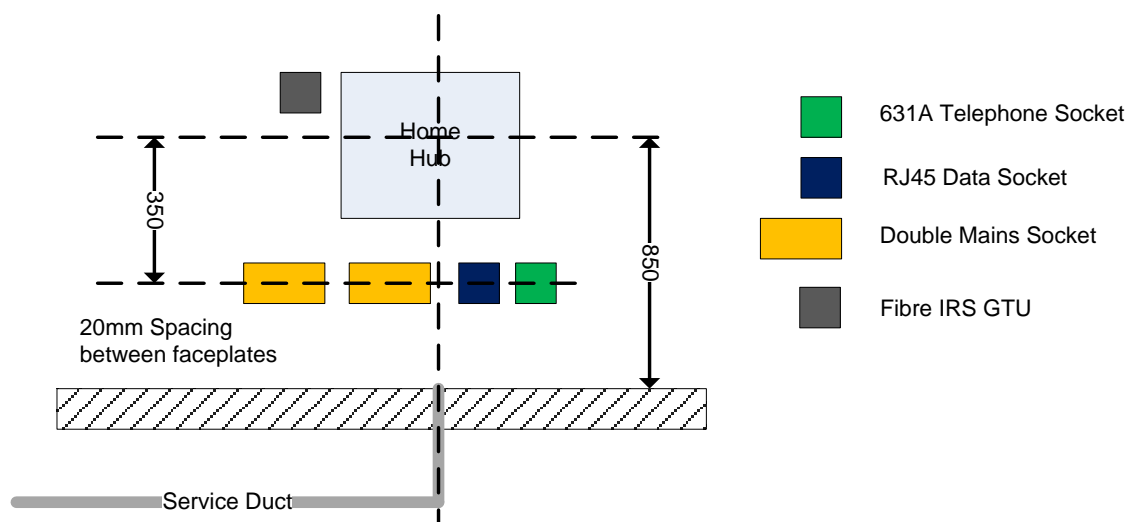


Figure 1 – FIRS GTU Positioning



All coax cables must be connected back to the FIRS GTU and pre-terminated using F-Type connectors. The coax cables must be delivered outside and to the left of the home hub box and all be at least 150mm in length. The coax cable used for the installation must be suitable for distribution of digital TV services such as CT100 or similar.

We recommend the use of crimp F-Type connectors as shown in Figure 2



Figure 2 - F-Type Connector

The installation and testing of all the coax cables with F-Type connector is the responsibility of the developer. All installed coax cables should be tested before cabling is signed off for purpose.

Coax cables are connected to the FIRS GTU using F-Type connectors.

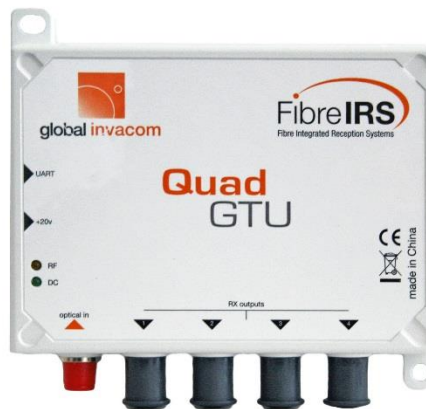


Figure 3 - Coax Connectors on Fibre IRS GTU

Finally, Figure 4 shows the final installation with coax cables terminated on the FIRS GTU adjacent to the Home Hub box:



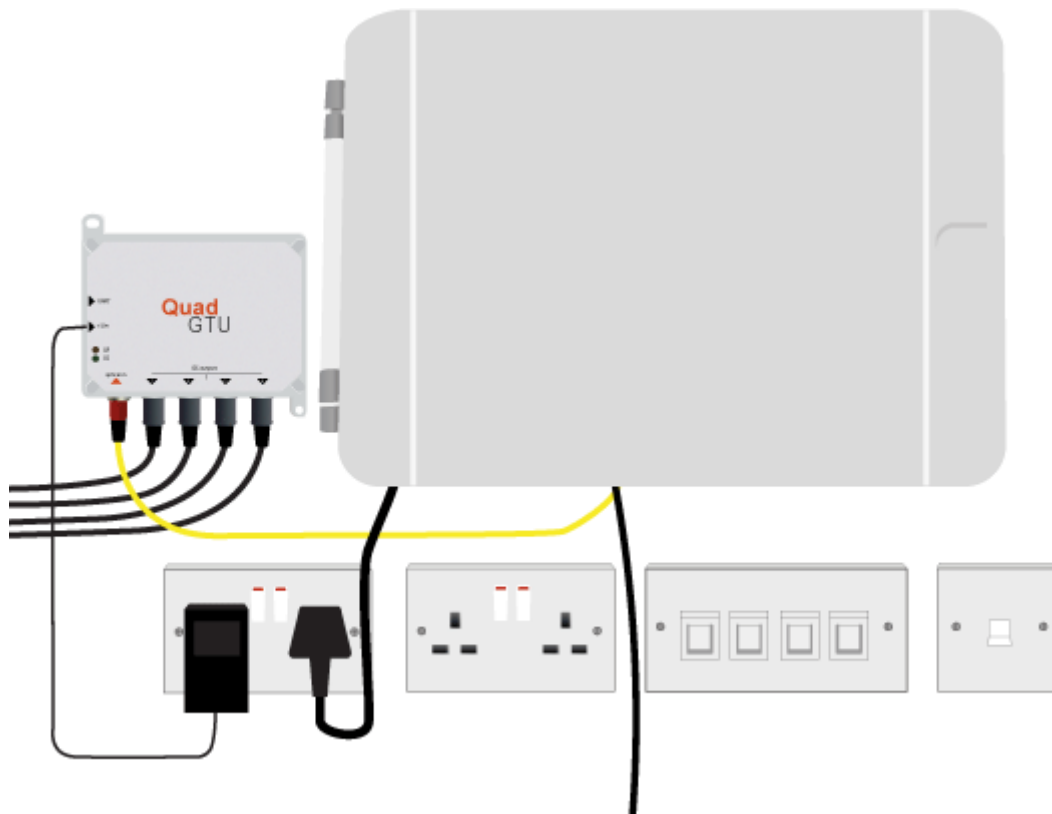


Figure 4 - Home Hub Layout

3. DISTRIBUTION CABLING AND SOCKETS AROUND THE PROPERTY

In-home cabling is the responsibility of the developer. Appropriate coax cable that is suitable for digital and satellite TV must be used such as CT100.

The FIRS GTU provides four outputs. This unit provides you with the facility to wire two rooms for Sky+ or one room with Sky+ and two rooms for standard Sky reception.

Where PVR services such as Sky+ or Freeview+ are required then dual coax feeds will be installed between the FIRS GTU and the TV/radio output sockets. This will utilise two of the four available feeds and is typically installed to the lounge TV point.

TV faceplates must be suitable for digital TV and satellite signals. Faceplates are to be supplied, fitted and tested by the developer.

The following faceplates or equivalent are suitable for digital TV signal distribution.

Triax 304109

Provides dual satellite (e.g. Sky+ or Freeview+), digital TV, and DAB radio outputs. Typically deployed in lounge.





Figure 5 – Sky+/Freeview+ Triax 304109 socket

Triax 304102

Provides a single satellite output, digital TV and DAB. Typically deployed in secondary locations such as Kitchen or bedrooms.



Figure 6 – Standard Sky/Freeview Triax 304102 socket

The two below figures are illustrations of the wiring configurations that GTC support within a FIRS enabled home.

Figure shows how a home would need to be wired to support one room with Sky+/Freeview+ and two rooms with Standard Sky/Freeview reception.



Figure 8 shows how two rooms would need to be wired to support Sky+/Freeview+:

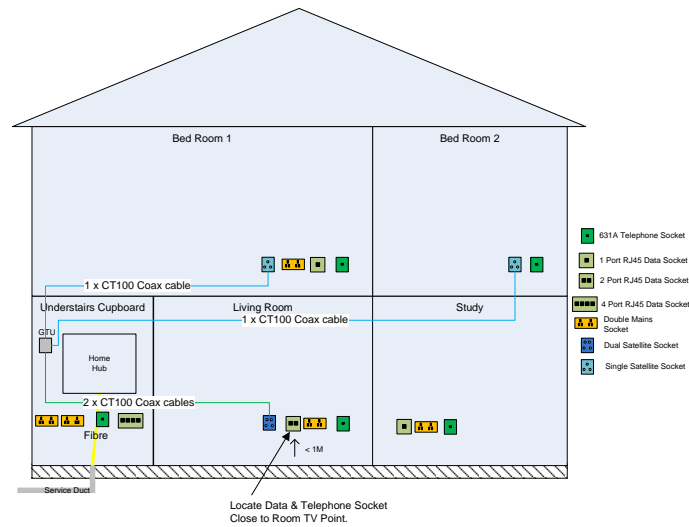


Figure 7 - Home Wiring – One Sky+ and two standard Sky enabled rooms

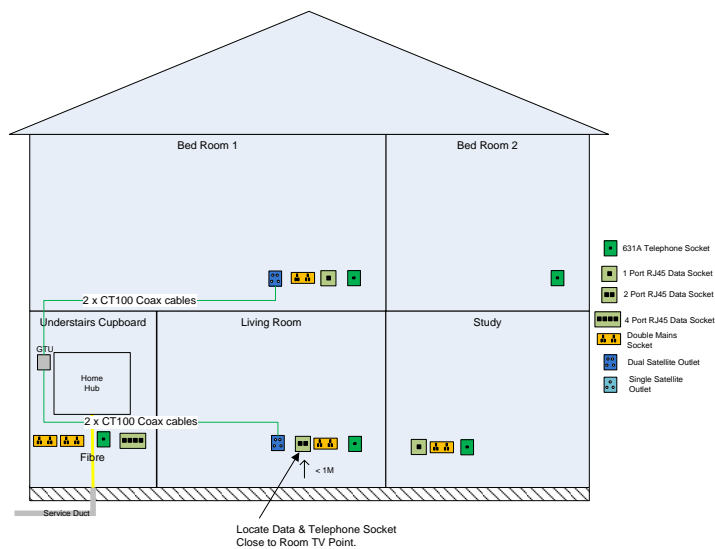


Figure 8 - Home Wiring – two Sky+ enabled rooms

If you require more TV points than we provide in our standard installation scenarios we would recommend that you speak to a local contractor who will be able to further assist you with your extended requirements.

4. FURTHER INFORMATION

After installation has been completed Independent Fibre Networks will manage and operate the FIRS network. Further information and troubleshooting advice can be found on their website using the following link:

<https://www.ifnl.net/irs>

