

**Key:** NTE: Network Termination Equipment  
CPE: Customer Premises Equipment

Etherway: the maximum potential bandwidth of the physical fibre/copper bearer  
Etherflow: the actual purchased bandwidth (over a given Etherway)

## Circuit Information

### **BT Wholesale - Copper Ethernet:**

**NTE Type:** Hatteras/Overture HN408CP [<https://www.google.co.uk/images?q=hn408cp>].

**NTE Interface:** RJ45.

**How to Connect:** RJ45 port on the NTE, via cross-over cable, to RJ45 port on CPE.

### **BT Wholesale / TalkTalk Business / Openreach - Fibre Ethernet:**

#### **For services with an Etherway of less than 1 Gb/s**

**NTE Type:** ADVA FSP150CP [<https://www.google.co.uk/images?q=fsp150cp>].

**NTE Interface:** RJ45.

**How to Connect:** RJ45 port on the NTE, via cross-over cable, to RJ45 port on CPE.

#### **For services with an Etherway of 1 Gb/s**

**NTE Type:** ADVA FSP150CP [<https://www.google.co.uk/images?q=fsp150cp>].

**NTE Interface:** SFP Module (Multi-mode; MMF) with an LC Interface [<https://www.google.co.uk/images?q=fibre+lc+connector>].

**How to Connect:** LC interface on the NTE, via LC-LC fibre optic patch lead, to LC interface on CPE.

#### **For services with an Etherway of 10 Gb/s**

**NTE Type:** ADVA FSP150CP [<https://www.google.co.uk/images?q=fsp150cp>].

**NTE Interface:** SFP Module (Single-mode; SMF) with an SC Interface [<https://www.google.co.uk/images?q=fibre+sc+connector>].

**How to Connect:** SC interface on the NTE, via SC-SC fibre optic patch lead, to SC interface on CPE.

### **BT Wholesale - FTTC Ethernet:**

**NTE Type:** Can be a Customer or Spitfire-supplied VDSL2 modem. Spitfire will typically provide a Technicolor router configured in Bridge Mode for this purpose, or alternatively, a Cisco router with a VDSL2 WAN Interface Card (WIC).

**NTE Interface:** If using Technicolor router in Bridge Mode, any of the RJ45 switch ports.

**How to Connect:** If using Technicolor router in Bridge Mode, RJ45 port, via cross-over cable, to RJ45 port on CPE.

### **TalkTalk Business - FTTC Ethernet:**

**NTE Type:** TalkTalk Business typically provide a Comtrend VR3030 modem [<https://www.google.co.uk/images?q=Comtrend+VR3030>].

**NTE Interface:** RJ45.

**How to Connect:** RJ45 port on the NTE, via cross-over cable, to RJ45 port on CPE.

**Notes:** a steady DSL light indicates sync. The Internet light will remain extinguished (this is correct behavior).

### **COLT / Virgin Media Business Fibre Ethernet:**

**NTE Type:** Varies.

**NTE Interface:** RJ45.

**How to Connect:** RJ45 port on the NTE, via cross-over cable, to RJ45 port on CPE.

## Information on Spitfire-supplied CPE (effective from the date of this guide and subject to change)

*BT Wholesale Copper Ethernet* circuits are normally supplied with a Cisco 1921 router with port 0/0 enabled as the WAN interface. *Fibre Ethernet* circuits with RJ45 presentation are typically supplied with Juniper routers with port 15 configured as the WAN interface. For other *Fibre Ethernet* circuits the relevant fibre interface on the relevant SPF module (either LC or SC) should be used. If in doubt, or for any clarification or assistance, do please contact Spitfire Support.

## A note on the use of Media Converters

*Spitfire recommends against the use of Media Converters such as those used to convert between fibre and copper. It is instead recommended that a customer's router be directly connected to the supplier NTE via a single cable. Any advice or guidance from Spitfire in relation to Media Converters would be limited and provided on a non-guaranteed basis. Spitfire-supplied routers have the interface and cable to match the interface on the NTE without the need for a Media Converter.*

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**For assistance please contact Spitfire Support on 020 7501 3030 or via [support@spitfire.co.uk](mailto:support@spitfire.co.uk).**