

## Quantec Network Splitter

Part No. **QT603**



### Overview

- An essential wiring/installation aid for C-TEC's Quantec Addressable Call System.
- Helps protect against open and short circuit faults and reduces the risk of volt drop.
- Includes one input and one output connection for Quantec's 'Spine' wiring (typically 1.5-2.5mm T&E) and six fused 400mA 'limb' connections for the wiring of individual circuits containing Quantec's field devices (typically 4 core stranded security cable).
- At least one QT603 is required per Quantec system (the more you use, the easier it will be to program and fault-find).
- Install one QT603 per corridor junction (locate at the end of the corridor nearest to the Quantec Controller). If the corridor is longer than 50m, install the splitter in the centre of the corridor to reduce wiring runs.
- Mounts on a standard 25mm UK double gang back box.
- 'Power' and 'Fault' indicators.
- Max. 60 addressable devices per QT603.



### More Information

Quantec utilises a unique data protocol that works down two wires and a maximum of 255 addressable devices can be connected to a Quantec Controller (dependent on network topology).

Addressable devices require 2 network connections. Non-addressable devices such as ceiling pulls that connect to Quantec via an addressable call point, ceiling receiver, monitoring point or universal programming device using 2, 3 or 4 cores of stranded security cable.

Wiring must be made in a 'Spine' and 'Limb' configuration using one or more QT603 network splitters. This allows the use of ordinary unscreened cable which simplifies installation, fault-finding and commissioning.

**SPINE WIRING** Wire Spines in 1.5mm<sup>2</sup> or 2.5mm<sup>2</sup> T&E For a typically loaded system. the following spine lengths apply: • Max. length for a



single spine using 1.5 mm<sup>2</sup> cable = 150 m • Max. length for a single spine using 2.5 mm<sup>2</sup> cable = 250 m • Max. length of all spines + limbs = 750 m.

• DO NOT wire any devices to the spine other than network splitters. **LIMB WIRING** Wire Limbs in a minimum of 4 core cable (7/0.2 mm<sup>2</sup> strand) twisted into one pair to reduce voltage drop. No. of Limbs per Splitter = 6; Max. length per limb = 60 metres. Max. number of addressable devices per limb = 15;

Max. number of addressable devices per Splitter = 60. If possible, distribute devices at equal distances along the length of the limb.

The Quantec Controller can be located anywhere on the network, although it is normal practice to install it centrally to reduce wiring runs, ideally in a manager or supervisor's office. Distribute Splitters evenly throughout the site and locate at an accessible height.

## Technical Specifications

Compatibility	Quantec Addressable Call System.
Quiescent current	Less than 1.5mA.
Indicators	Power & Fault.
Controls	None,
Connections	2 x Net + and Net -; 6 x Limb connections (+ and -).
Product dimensions (mm)	146 W x 87 H x 35 D mm. Mount on a 25mm deep back box.
Construction & finish	Plastic.
IP Rating	IP40.
Weight	200g.
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.
Notes	A s/c on any limb will cause a current to flow and, provided the resistance of the circuit is low enough, its fuse to blow and yellow fault LED to illuminate. This fault will reported to the QT601/



T 01942 322744 E sales@c-tec.co.uk

F 01942 829867 W www.c-tec.com



C-TEC, Challenge Way, Martland Park, Wigan, WN5 0LD United Kingdom