

AS1650 - FibTel SM to ROLI/RILO

Bi-Directional Conversion

External Universal PSU

Wall Mount Enclosure

Description

The Fibre to Audio Interface Unit provides conversion between Singlemode or Multi-mode to copper signalling. The local copper connection can be 2W or 4W audio, 2W/4W with E&M, or ROLI/RILO (FXS/FXO). All these are available by fitting alternative adaptor cards within the unit.

The ROLI/RILO signalling adaptor can provide both signal variants on the one PCB but is preset to the required version at the install stage. The units can be connected as shown below to provide a long line extension or hotline facility between two handsets in a lift to ring configuration. Local signal connections are presented on an RJ45, fibre is via ST connectors and DC power via the in-line supply is on a centre positive dc connector. Future options include input for low speed data over speech (evacuation and status signalling) and Eurocard version for rack mount.

Operation

The lamps on the unit facia reflect the operation of the line-side connection (fibre) regardless of the interface circuit fitted within the unit. In IDLE the Carrier lamp will be ON solid GRN (this shows that a carrier is being received). When an outgoing call is created the Tx/Rx lamp will flash GRN, when an incoming call is received the lamp will flash RED.

When installing to establish the Tx & Rx fibres are good, by pressing the Test Button (Top RHS) the Tx/Rx lamp will flash GRN as the button is released and if the distant end unit is detected it will flash the Tx/Rx lamp RED. (Flash approx 5 times). If there is no unit detected then the unit will not flash the Tx/Rx lamp RED.

Technical

FIBRE

- Singlemode -
- ST connection
- Loss Budget 10dB

ROLI

Battery Feed @ 24V & 55Vrms Ring Voltage
Set Internal DIP switch Sw1 OFF
Connection as per RJ45 opposite

RILO

Loop O/P @ Ring/Line Detector
Set Internal DIP switch Sw1 ON
Connection as per RJ45 opposite

Unit Powered by Ext Universal PSU 100V - 240Vac
Power to dc Connector 24Vdc @ 200mA

Weight - 600g (inc PSU) Size - 180 x 88 x 40 mm

Setup

For links >6dB Loss Budget set Lk4 to HI (High Power)

To set up unit as ROLI or RILO, alter switch shown in black on diagram bottom left of sheet.

Lamp operation

Carrier:

Solid GRN - Incoming Carrier detected
Flash RED - No Carrier detected

Tx/Rx:

Flash GRN - Outgoing Call
Flash RED - Incoming Call
Flash GRN/RED - Call Established

