

AS1651/1671 - FibTel Fibre (MM / SM) to ROLI / RILO

Bi-Directional Conversion

-48V Battery Feed

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.

Setup

If the loss over the fibre line will be greater than 6dB then Lk4 on the board should be set to HI (High Power). When using an external -50Vdc source check orientation of supply.

To set up board as ROLI or RILO, the switch highlighted in black should be changed, see side of unit diagram below.

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 icomming 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.

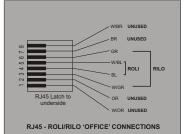


AS16x0

CONNECTION DIAGRAM

FIBRE

ROLI/



Rx

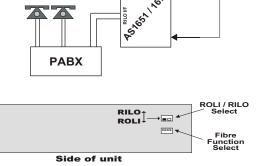
Тx

FIBRE

Multimode

or

Singlemode



FIBRE

FUNCTIONAL DIAGRAM

RILO
Loop O/P @ Ring/Line Detector
Set Internal DIP switch Sw1 ON
Connection as per RJ45 opposite
Power is supplied via a plugable screw terminal

Set Internal DIP switch Sw1 OFF

Connection as per RJ45 opposite

for connection to the unit -48V and is diode protected

Multimode -

- ST Connection

- Loss budget TBA

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

Battery Feed @ 24V & 55Vrms Ring Voltage

Lamp operation

Carrier:

Technical

Singlemode -

- ST connection

- Loss Budget 10dB

FIBRE

ROLI

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

TIGOTITIED THE Garrier detected

Tx/Rx:

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

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DATASHEETS/AS1650-70 Data Sheet