AS2440 - Cable Intercom

KELTEL communications ltd

| Connects to Standard Cat5 | 110/240V power via In-Line PSU | Integrated Line Speaker |

Description
The AS2440 Cable Intercom Unit provides an Omnibus type of communications between numerous users all connected on a common twisted pair cable.
Each unit is powered locally via an external in-line PSU (24Vdc) which can be supplied with 110 to 240Vac. If necessary it could be powered from an existing 24V source or a 24V battery supply.
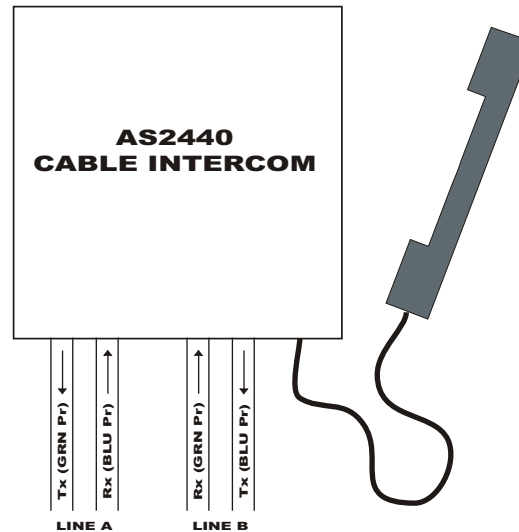Connection to line is via standard RJ45s connecting to Cat5 cable linking the units and utilising the GREEN & BLUE pairs of the cable.
Open communications from line is via the integral front panel speaker. To make & receive closed communications, this is done via the handset plugged into the units RJ12 connector. The handset used has a 5m coily cord and a noise cancelling microphone.
Front panl lamps are also provided to mimic the operation of the system.

CONNECTION DIAGRAM

AS2440
CABLE INTERCOM

Tx (GRN Pr)   Rx (BLU Pr)   Rx (GRN Pr)   Tx (BLU Pr)

LINE A   LINE B

BR
W/BR
GR
W/BL — 4W Rx A, Tx B   4W Tx A, Rx B
BL
W/GR
OR
W/OR

1 2 3 4 5 6 7 8

RJ45 Latch to underside

RJ45 - CABLE ENDS

AUDIO LEVEL ADJUSTMENTS

LINE
TO
HANDSET

HANDSET
TO
LINE

Technical
Handset
5m Coily Cord
Integral PTT
Noise Cancelling Microphone
Adjustable for Tx & Rx

Line Connection
RJ45 for simple line connection
Audio set for Flat Response Through
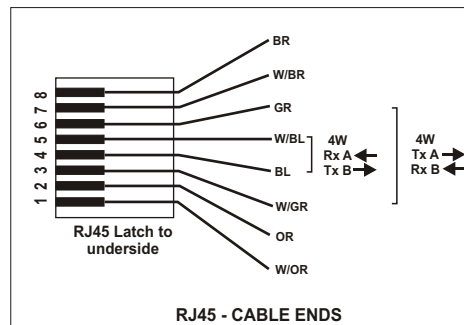Requires 2x Twisted Pair
- Cat5 or CW1308

Power
In-Line PSU
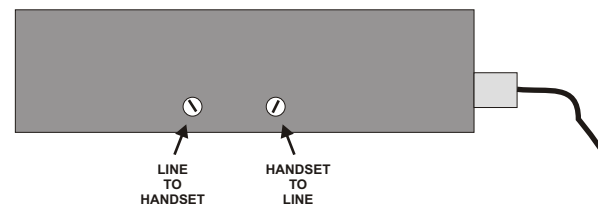- 110 to 240Vac
IEC Power Cable

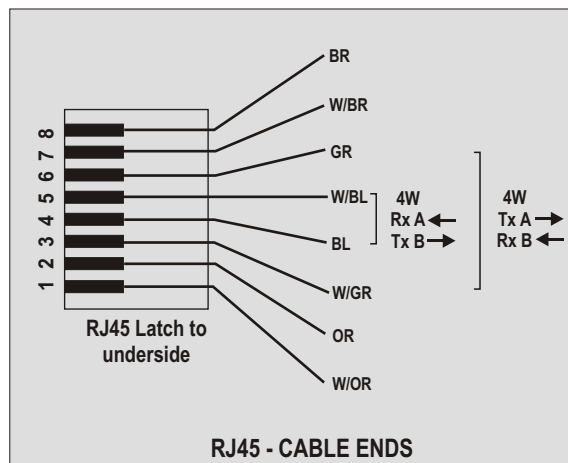Weight - 250g
Size - 175 x 90 x 40mm

Operation
Switch ON Speaker (RED LED Off)
Press & Hold PTT to Talk
Speaker mutes with PTT

Alistair Douglas
20/03/07

DATA/DATA SHEETS/AS2440 - CABLE INTERCOM IFU & DATA SHT

AS2440 - CABLING & CONNECTIONS

KEL TEL
communications ltd

SPEAKER OFF
SPKR
PTT
SPEAKER ON
CABLE INTERCOM
AS2440
KEL TEL
TEL : 01573 228955
www.keltel.co.uk
LINE A LINE B HSET PWR

SPEAKER OFF
SPKR
PTT
SPEAKER ON
CABLE INTERCOM
AS2440
KEL TEL
TEL : 01573 228955
www.keltel.co.uk
LINE A LINE B HSET PWR

SPEAKER OFF
SPKR
PTT
SPEAKER ON
CABLE INTERCOM
AS2440
KEL TEL
TEL : 01573 228955
www.keltel.co.uk
LINE A LINE B HSET PWR

B   A B   A B   A

COUPLING
BALUN

RJ45 connections:
8 BR
7 W/BR
6 GR
5 W/BL   4W   4W
4   Rx A ←   Tx A →
3 BL   Tx B →   Rx B ←
2 W/GR
1 OR
   W/OR

RJ45 Latch to underside

RJ45 - CABLE ENDS

INSTALLATION NOTES -
1. When connecting units in series ensure A always connects to B and vice versa
2. Where a unit is not fitted, a straight through balun must be used to connect pairs
3. Ensure all cables are configured at both ends as shown opposite

OPERATIONAL NOTES -
1. Power up using supplied 24V PSU
2. Connect cables as shown above
3. Switch Speaker ON (RED LAMP OFF)
4. Any audio on path will be heard on speaker
5. To call to all parties PRESS & HOLD handset PTT (rear of earset)
6. For privacy switch off Speaker, audio will be heard in earset

A.Douglas
15/03/07

ASSEMBLY/DATA/AS2440/AS2440 Installation Cables

Keltel Comms Ltd
Thistle House, Union St, Kelso, Scotland, TD5 7DR
Tel : +44 (0) 1573 228955 Fax : +44 (0) 1573 228951
Email : sales@keltel.co.uk   Web : www.keltel.co.uk