

Telephone Dialup System - Connections

Signal Input

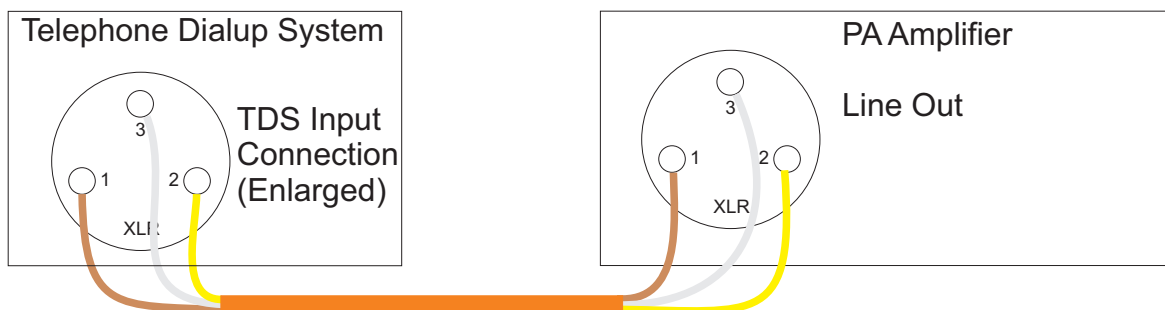
All latest versions of the TDS use a female XLR type connector for the signal input. The XLR has three connections: Signal hot (pin2), signal cold (pin3) and a screen earth (pin1). Note that pin1 connects to the TDS case metalwork only and is a protective earth. Thus the incoming audio signal connects between pins 2 and 3 and is wired as a balanced audio input.

Connections

The TDS needs an audio signal source. This can be almost anything from a recording output, through line output, low impedance speaker feed up to a 100V line speaker feed. You will need to adjust the internal attenuator link and gain control to get a precise level match - see handbook.

The output from the sound system (or Public Address - PA) may be on a jack socket, XLR socket or speaker terminals and you will need to determine which connection you will be using for your installation. Some sample wiring diagrams are shown below.

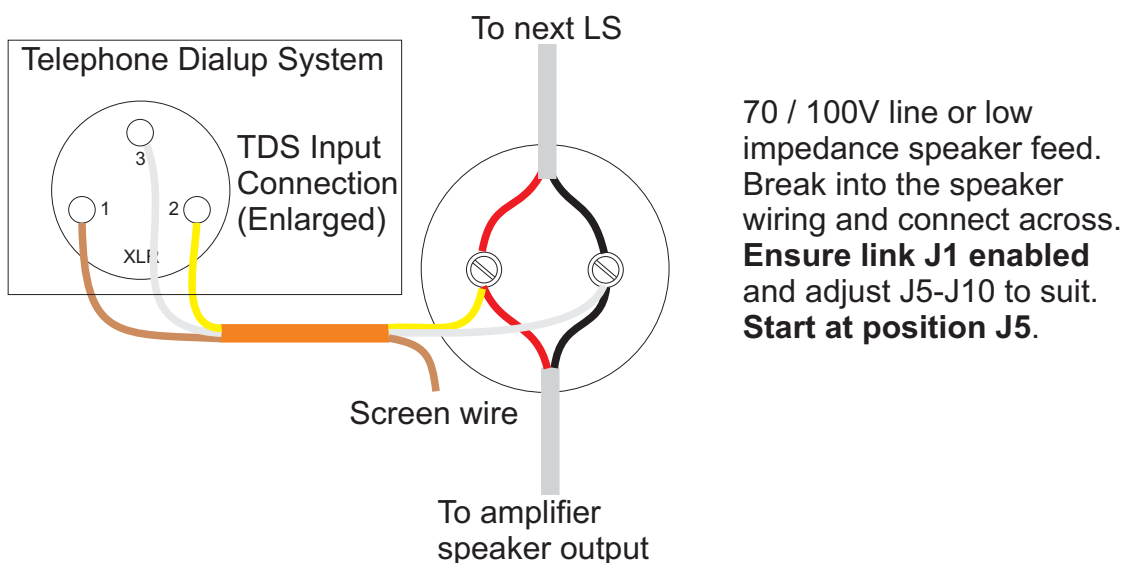
Fig 1 Connecting to a Balanced Signal Source - Recording or Line Output



Move link within TDS from J1 to J2

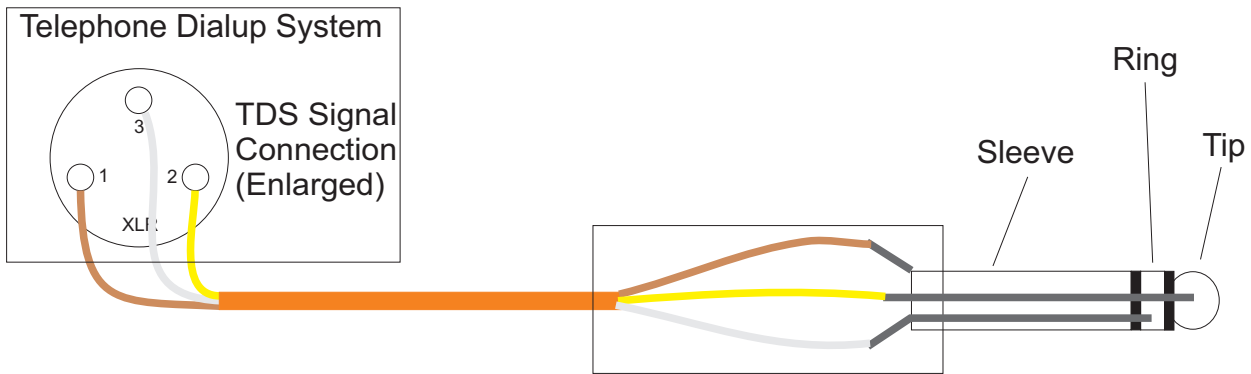
Uses a standard XLR male to XLR female lead

Fig 2 Connecting to a Loudspeaker Source



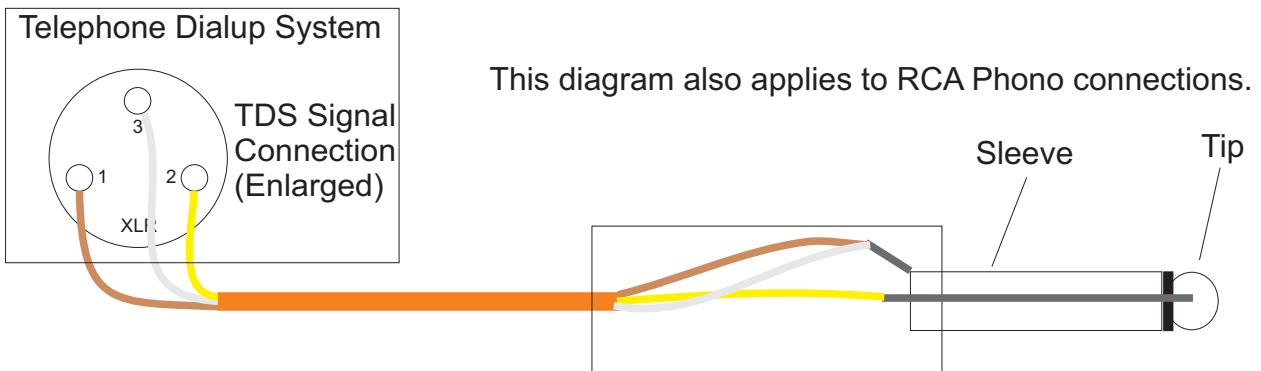
Using Jack or Phono Connections

Fig 3 Balanced 3 Wire Connection



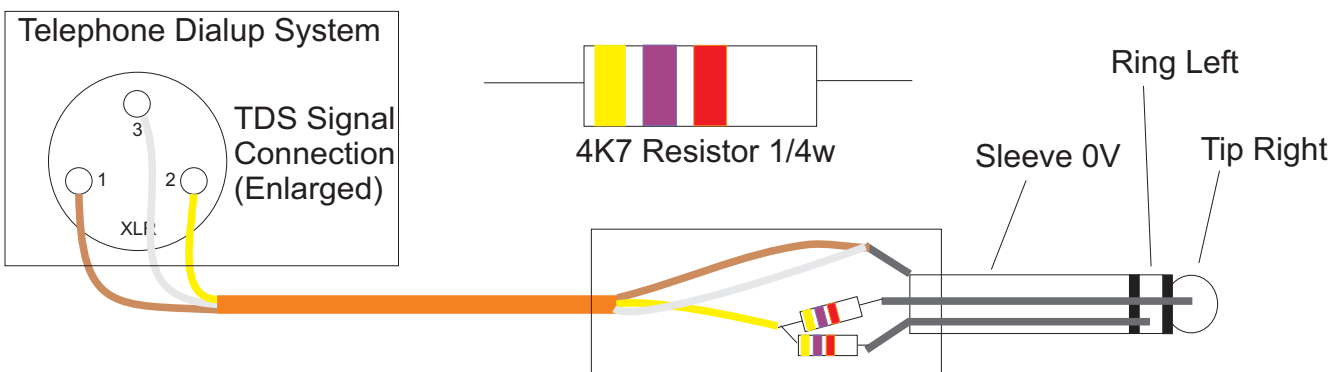
Balanced 3 wire connection. Signal hot (+Ve) is yellow, signal cold (-Ve) is grey and brown is a protective earth. Note that the earth wire is for screening and earth protection only. It does not carry the audio signal. TDS link setting J2.

Fig 4 Balanced 3 Wire to Unbalanced 2 Wire Connection



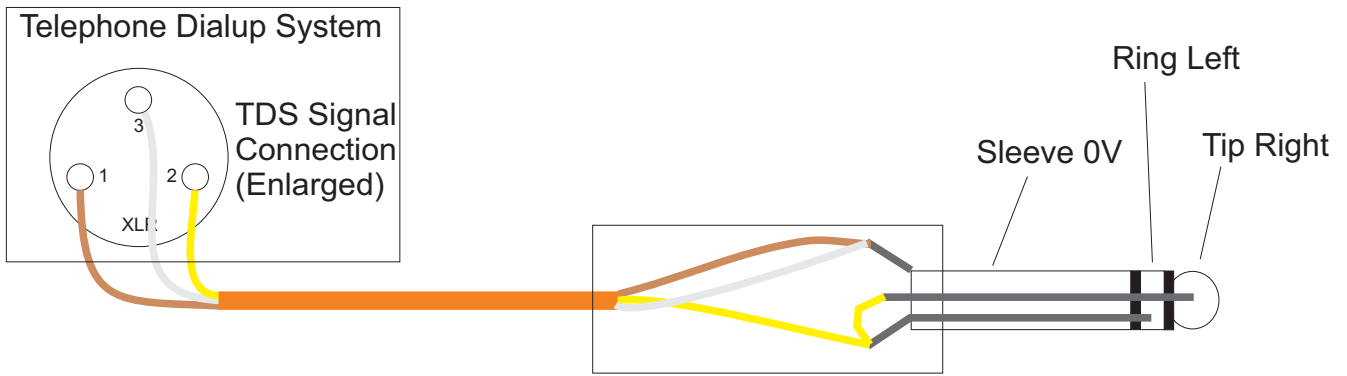
Balanced 3 wire to unbalanced 2 wire connection with screen. Signal hot (+Ve) is yellow, signal cold (-Ve) is grey and brown is a protective earth. Note that the earth wire is for screening and earth protection only. It does not carry the audio signal. This type of connection is used for low level eg recording / line level signals. Connect grey (signal -Ve) and screen together at the jack plug. TDS link setting J2.

Fig 5 Balanced 3 Wire to Unbalanced Stereo Connection with signal isolation



Balanced 3 wire input fed from a typical stereo headphone output. Left and right channels are summed together via a resistive network (2 x 4K7). Use for stereo phono outputs too where you need to keep L and R signals isolated. TDS link setting likely to be J1 + J9 or J10.

Fig 6 Balanced 3 Wire to Unbalanced Stereo Connection with no signal isolation



Balanced 3 wire input fed from a stereo recording output. Left and right channels are shorted together. Use for stereo phono outputs too where there is no need to keep L and R signals isolated. TDS link setting J2.