

TELEX TECHNICAL DATA

Model HS-500 Interphone and Paging Handset

CE



General Description

The Telex Model HS-500 Handset is designed for aircraft interphone and paging applications. It features an amplified differential electret microphone for superior noise cancellation and an audiometric dynamic receiver for excellent frequency response with low distortion. Due to its noise-cancelling characteristic, the handset may be used near PA speakers without experiencing feedback. Also, the handset is extremely resistant to radio frequency interference and 400 Hz hum.

The HS-500 Handset is approved for aircraft use under Federal Aviation Agency TSO-C57 and C58.

Design Features

The handset housing is a lightweight, G-4 model made from black, high-impact plastic. A push-bar switch, located in the handle, activates the microphone. The microphone and receiver caps are removable for internal servicing. The electret microphone element and amplifier are contained in a single module. The output level is adjustable over a 10 dB range via an access hole in the side of the module. The receiver element features a Mylar cone for low susceptibility to temperature and humidity variations. Both the microphone-amplifier module and the receiver element are replaceable without soldering or wire cutting.

The cordage is standard vinyl-jacketed telephone coil cord. Cordage is strain-relieved at handset and plug for maximum strength. Cord and plug configurations are available to meet a variety of user requirements (see specifications and wiring diagrams for configurations).

For best noise cancellation, the microphone should be positioned as close to the mouth as possible when talking. The push-bar switch on the handle is pressed to talk. (It must also be pressed to listen on the Catalog No. 63274-004 Handset.)

Specifications

Receiver

Type:

Dynamic, audiometric

Impedance:

600 ohms

Frequency Response:

20 Hz-4 kHz

Sensitivity:

109 dB SPL (ref: 1 mW at 1 kHz input using NBS 9A coupler)

Microphone and Amplifier

Type:

Noise-canceling electret

Matching Impedance:

50-600 ohms

Frequency Response:

100 Hz-10 kHz

Sensitivity:

-55 \pm 3 dB at 1 kHz (ref: 1V/ μ bar with sound source 0.25-inch (6.35 mm) from front screen, 12 Vdc supply, 150-ohm load)

Specifications Cont.

Power Requirement

Supply Voltage: 8-30 Vdc

Current: 18 mA with 12 Vdc supply

Weight:

Approximately 12 oz (340 g)

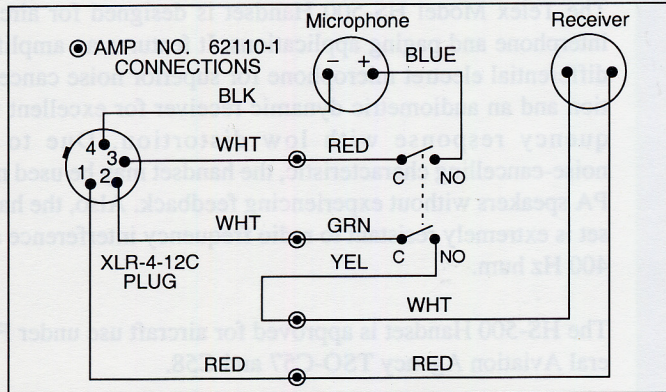
Cord Length:

7 ft (2.13 m) extended for Catalog No. 63274-011 Hand-set, 5 ft (1.52 m) extended for all other catalog nos. Retracted length is approximately 1 ft (0.3 m).

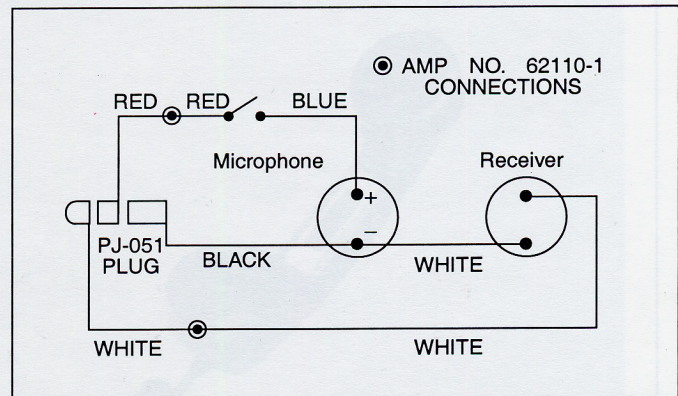
Color:

Black

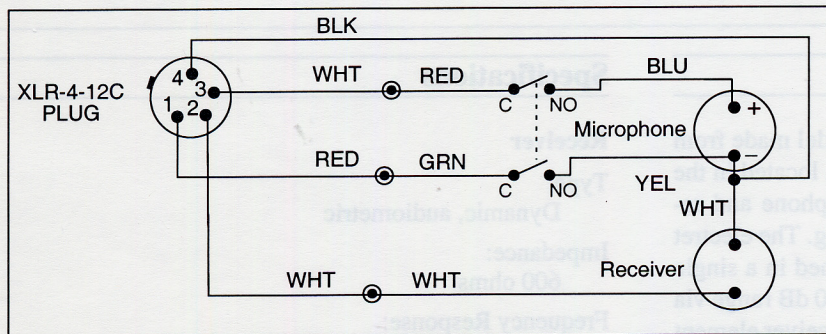
Wiring Diagrams



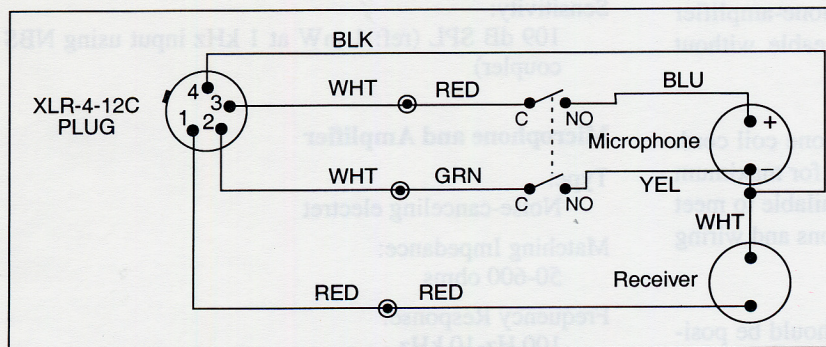
Catalog No. 63274-004



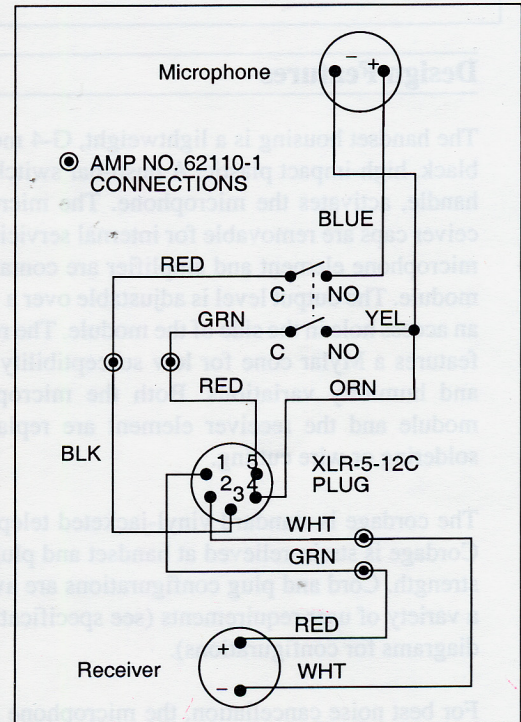
Catalog No. 63274-008



Catalog No. 63274-006



Catalog No. 63274-010



Catalog No. 63274-011

Ordering Information

HS-500 with XLR-4-12C Plug	Catalog No. 63274-004
HS-500 with XLR-4-12C Plug	Catalog No. 63274-006
HS-500 with PJ-051 (M642/2A) Plug	Catalog No. 63274-008
HS-500 with XLR-4-12C Plug	Catalog No. 63274-010
HS-500 with XLR-5-12C Plug	Catalog No. 63274-011

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