

Telex[®]

Professional Headsets



TELEX[®]

V-Series modular headset system

Full Cushion

Ultimate comfort in a full cushion professional headset

The V-Series consists of a high fidelity, studio-quality headset and headphone which may be tailored to virtually any need using modular cordsets and microphone elements. The cordsets plug into the headset base unit via high quality, self-locking Hirose connectors. Two different microphone elements (dynamic and electret) are available and connect easily to the adjustable mic boom.

A completely new earphone driver design, using a fine-membrane polycarbonate cone and Alnico magnet assembly provides a 10 Hz to 20 kHz frequency response and 90 dB sensitivity to meet the most demanding broadcast or recording studio standards. A unique earplate adjustment optimizes the unit for either maximum fidelity or maximum sound isolation. The units are completely field repairable using a screwdriver as the only tool.



V-200
(300027-000)

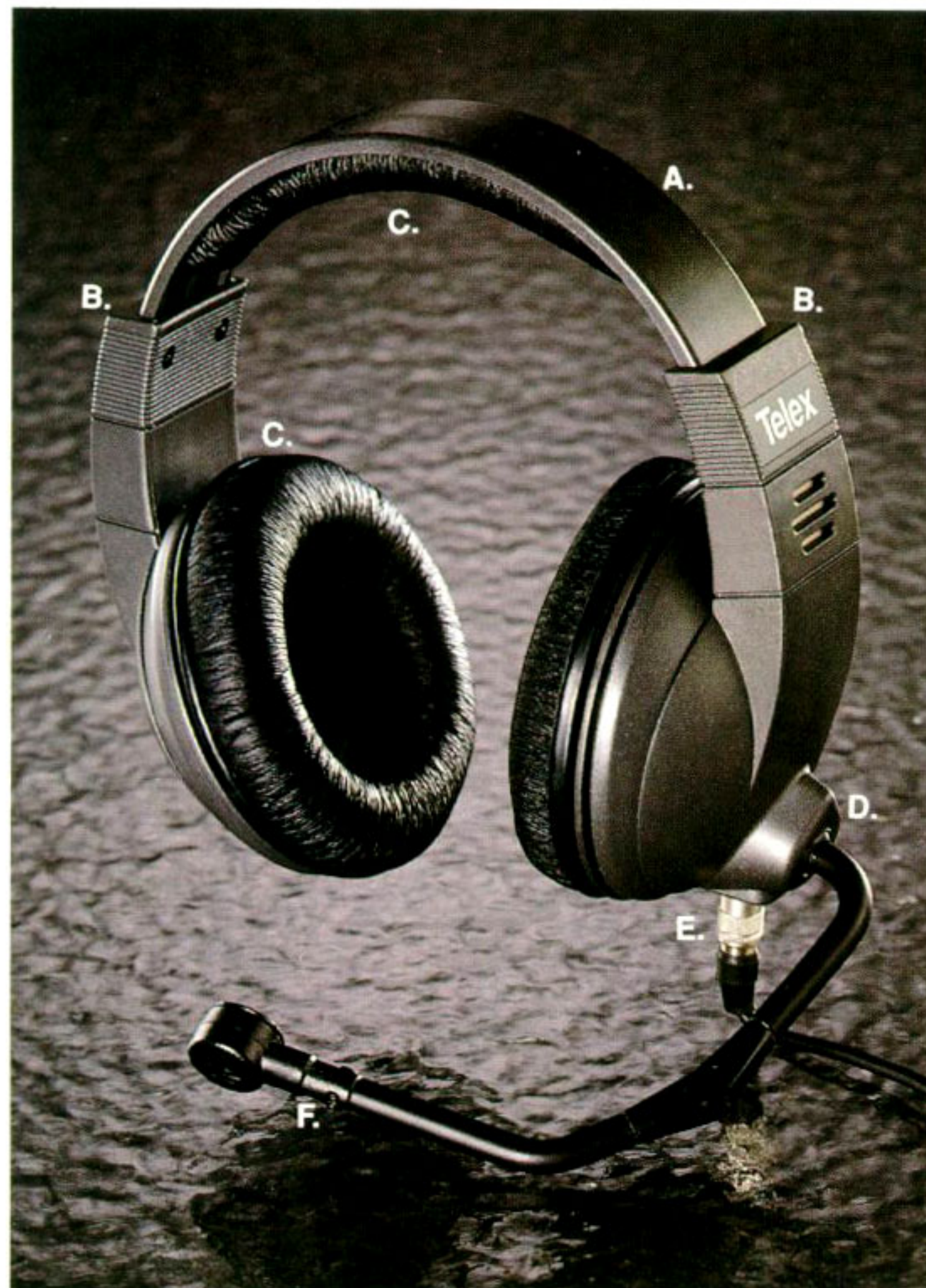


V-210
(300027-001)



V-220
(300027-002)

The full cushion V-Series consists of three basic models: the V-200 (600 ohm) dual-sided headphone, the V-210 (160 ohm) single-sided headset with boom mic arm, and the V-220 (80 ohm) dual-sided headset with boom mic arm.



A. The headband is made of polycarbonate resin for maximum durability.

B. Detented height adjuster for each earcup.

C. The ear cushions and headband pad are covered in a soft, luxurious material for incredible comfort.

D. Patented ball and socket mic boom mechanism allows headset to be worn with boom on either side of the head.

E. High quality, self-locking Hirose cable connectors assure highly reliable connection between modular cordsets and headset.

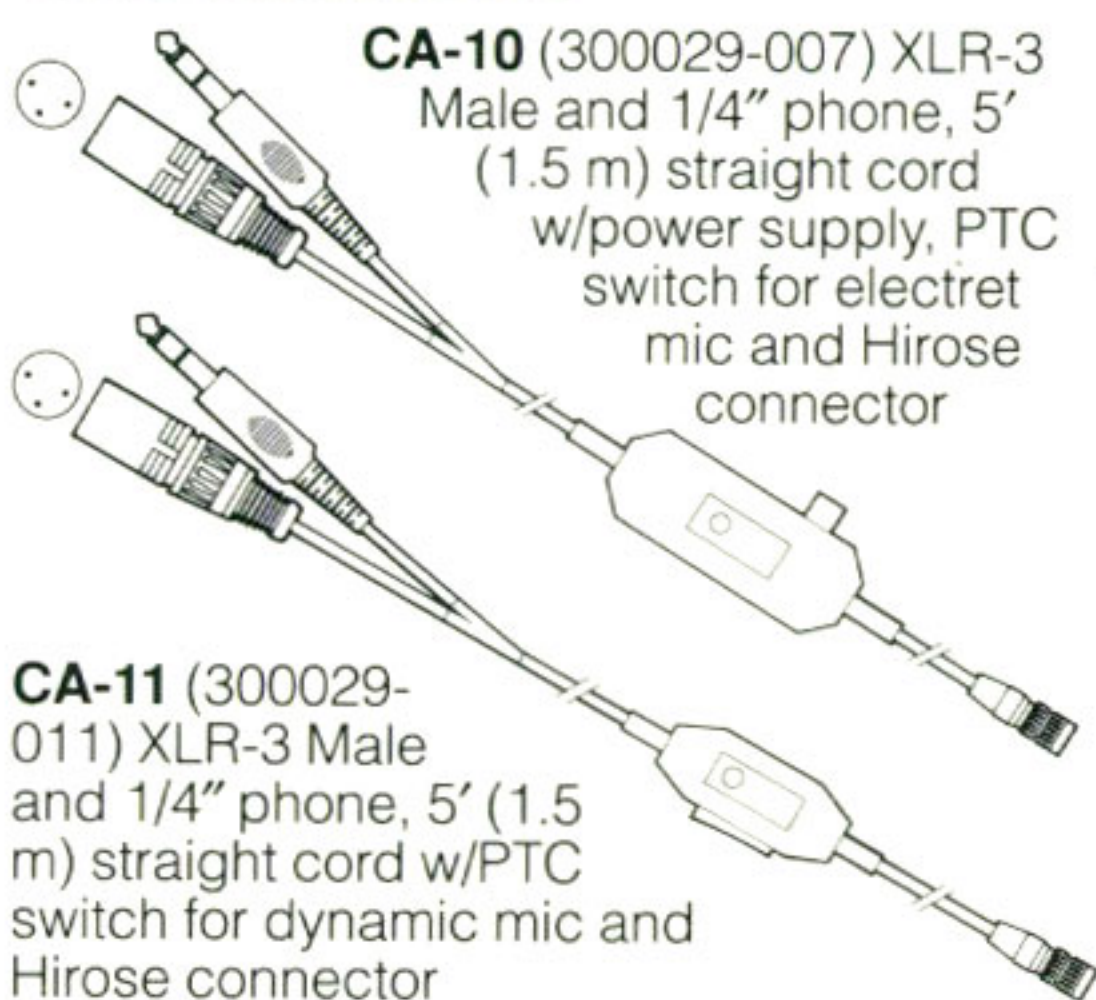


F. Modular microphone capsules connect easily to mic boom.



Modular Microphone and Cordset Components

Cord Assemblies



CA-22 (300029-000) XLR-4 Male, 5' (1.5 m) cord with Hirose connector



CA-30 (300029-009) XLR-5 Female, 5' (1.5 m) cord with Hirose connector



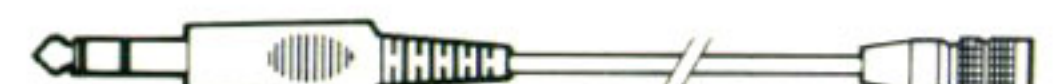
CA-33 (300029-004) XLR-5 Male, 5' (1.5 m) cord with Hirose connector



CA-40 (300029-006) Sony 1/8" mini 4-conductor, 5' (1.5 m) cord with Hirose connector



CA-50 (300029-005) 1/4" mono, 5' (1.5 m) cord with Hirose connector



CA-60 (300029-003) 1/4" stereo, 5' (1.5 m) cord with Hirose connector

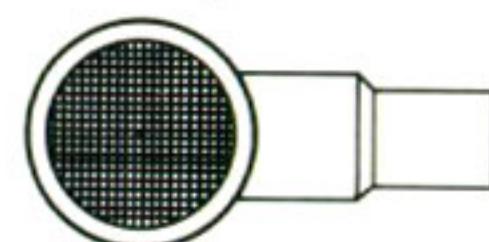


CA-70 (300029-002) pig tail, 5' (1.5 m) cord with Hirose connector



CA-80 (300029-010) 1/8" mini stereo, 5' (1.5 m) cord with Hirose connector

Microphone Cartridges



MB-11 (300028-000) Supercardioid Dynamic

MB-12 (300028-001) Supercardioid Electret

Announcer's headsets

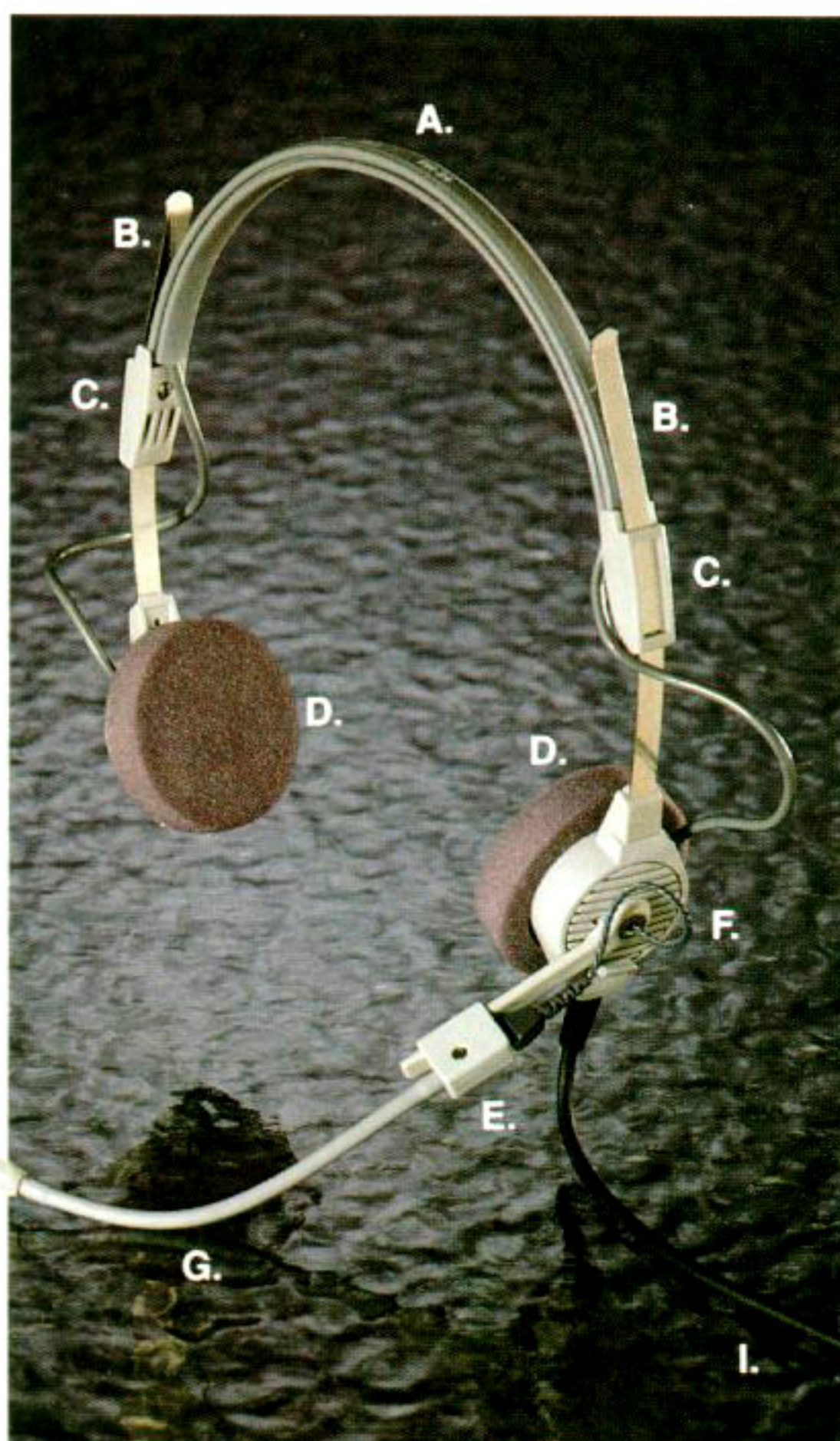
Lightweight

PH-24 Binaural Earphones, Noise Cancelling Mic (64356-000)

PH-25 Binaural Earphones, Omnidirectional Mic (70425-000)

In broadcast, announcers, disc jockeys and sportscasters alike require superb audio along with comfort which will last for hours and hours. With this Telex lightweight they'll experience all the comfort imaginable plus audio standards to satisfy the most critical engineer. A studio quality electret condenser microphone with comfort that will last throughout an exhausting eight hour, on-the-air shift!

The PH-24's miniature noise cancelling electret microphone provides an extremely flat frequency response for voice while significantly attenuating background noises. The PH-25's mic achieves the same quality response with an omnidirectional polar pattern.



A. Vinyl covered steel headband.

B. Stainless steel spring assemblies.

C. Unbreakable plastic slip bearings for easy head size adjustments.

D. High fidelity dynamic earphone receivers with removable foam ear cushions.

E. Quick disconnect boom microphone assembly for emergency repair.

F. Boom swivels so that the microphone can be positioned on either side of the head.

G. Flexible polyolefin microphone boom can be formed with your fingers.

H. Windscreen provided for attached miniature electret boom microphone.



I. In-line push-to-cough button with on/off switch for internal battery or external phantom power.

Camera intercom headsets

PH-81 Single-Sided Monaural Earphone, Omnidirectional Carbon Microphone (64438-004)

PH-83 Same As Above Except With Push-To-Talk Switch (64438-003)

PH-85 Dual-Sided Monaural Earphones, Omnidirectional Carbon Microphone (64437-005)

PH-87 Same As Above Except With Push-To-Talk Switch (64437-004)

This headset series is specifically designed to provide high quality communication through carbon camera intercoms in television studios or remote production locations. They have sensitive carbon microphones with a smooth voice frequency range and are compatible with Western Electric type intercom circuits.

The earphones have highly sensitive magnetic receivers that can be easily removed and replaced in the field for convenience and economy. A high quality coil cord with durable strain relief at the earcup provides tangle-free use.



A. Vents allow air to circulate providing day-long comfort.

B. Soft, foam-filled pads covered with supple polyurethane that resists cracking under the hot sun.

C. Washable nylon socks (not shown) are provided for earcups.

D. Highly sensitive magnetic earphone elements.

E. Stainless steel spring assemblies provide easy head size adjustment.

F. Microphone boom swivels on patented ball joint assembly so that the mic can be worn on either side of the head.

G. Omnidirectional carbon microphone.

H. No-tangle unterminated coil cord protected at the earcup by strain relief.

Intercom headsets

A complete series of lightweight or full cushion intercom headsets plus a telephone handset is available, all terminated with A4F and A5F plugs to complement Telex Audiocom™ or Clearcom intercom systems. The same series also comes with A4M and A5M plugs for complete compatibility with RTS Intercom Systems. This professional series features durable construction, handsome black finish and high quality dynamic earphone receivers and microphones. A special under-the-helmet version is included, (see page 10) which has an Environmental Protection Agency noise reduction rating of NRR 24 dB.



HS-6A (96145-000)
Telephone style handset with push-to-talk switch, dynamic earphone and dynamic mic. Terminated with A4F plug.

Full Cushion



PH-1 (64438-005)
Single-sided monaural earphone with dynamic mic. Terminated with A4F plug.

PH-1R (64438-019)
Same as PH-1 except with A4M plug.



PH-2 (64437-006)
Dual-sided monaural earphones with dynamic mic. Terminated with A4F plug.

PH-2R (64437-023)
Same as PH-2 except with A4M plug.



PH-3 (64437-007)
Dual-sided binaural earphones with dynamic mic. Terminated with A5F plug.

PH-3R (64437-024)
Same as PH-3 except with A5M plug.

Lightweight



PH-4 (70340-000)
Dual-sided monaural earphones with dynamic mic. Terminated with A4F plug.

PH-4R (70340-008)
Same as PH-4 except with A4M plug.



PH-5 (70350-000)
Dual-sided binaural earphones with dynamic mic. Terminated with A5F plug.

PH-5R (70350-002)
Same as PH-5 except with A5M plug.



PH-8 (70415-001)
Single-sided monaural earphone with dynamic mic. Terminated with A4F plug.

PH-8R (70415-009)
Same as PH-8 except with A4M plug.

Monitor headphones

Telex offers one of the widest selections of monitor headphones in the industry. Each model features durable construction, high quality dynamic earphones and long life cords terminated with a 1/4" phone plug. Choose from full cushion or lightweight models in mono or stereo. Single-sided models also available along with a wide variety of specialty lightweight private listening models.



PH-6 Stereo (64437-012)
PH-7 Dual-sided monaural (64437-013)
PH-11 Single-sided monaural (64438-009)
 (Not shown)



PH-35 Stereo (64359-000)
PH-36 Mono (64353-000)



Monoset®



Twinset®



Telefi®

General communications headsets

A series of professional communication headsets carefully designed to meet and surpass the most stringent requirements of the industry. With dynamic receivers that are built to resist mechanical shock, moisture and temperature changes. They have economic field replaceable dynamic noise cancelling microphone elements.



PH-62 (70362-000)
 Dual-sided stereo earphones.
 Unterminated (pig tail).



PH-75 (64438-001)
 Single-sided monaural earphone. Terminated with 1/4" phone plug.
PH-61 (64437-002)
 Dual-sided monaural earphones. Terminated with 1/4" phone plug.

Announcer's Earset®

For On-camera Listening

The popular Telex Earset, especially designed for inconspicuous listening while on camera, is used by nearly all major television networks and stations. The extremely efficient miniature driver element requires only nominal operating power and enables the announcer to hear program cues while working with a live microphone. The unit is also suitable for many other applications such as live theater script prompting.

Standard announcer earset systems

The EMV-2 has a low impedance (125 ohms) receiver and 5 foot (1.52 m) neutral grey cable with 1/4" (6.4 mm) plug and plastic covered metal earloop.

The EMY-2 has a high impedance (2000 ohms) receiver and 5 foot (1.52 m) neutral grey cable with 1/4" (6.4 mm) plug and plastic covered metal earloop.

The Telex Announcer's Earset can be ordered in these two configurations, or you can mix and match components from the next page that fit your application.



Standard Earset system includes receiver, earloop and cord

Specifications

Model No.	Catalog No.	Type	Earphone			Cable	
			Imped. (Ohms)	Freq. Response (Hz)	Output (dB)	Length	Termination
EMV-2	60194-001	Magnetic/Single	125	100-3,000	120	5 ft. (1.5 m)	1/4" (6.4 mm) plug
EMY-2	60194-004	Magnetic/Single	2000	100-3,000	120	5 ft. (1.5 m)	1/4" (6.4 mm) plug

The Versatile Earset System

Miniature receivers

Standard Earset systems come in two impedance variations (125 and 2000 ohm) with other impedances available as Telethin® receiver components. This wide variety permits a choice of appropriate impedance for any application. A receiver with built-in volume control is also available as a component.

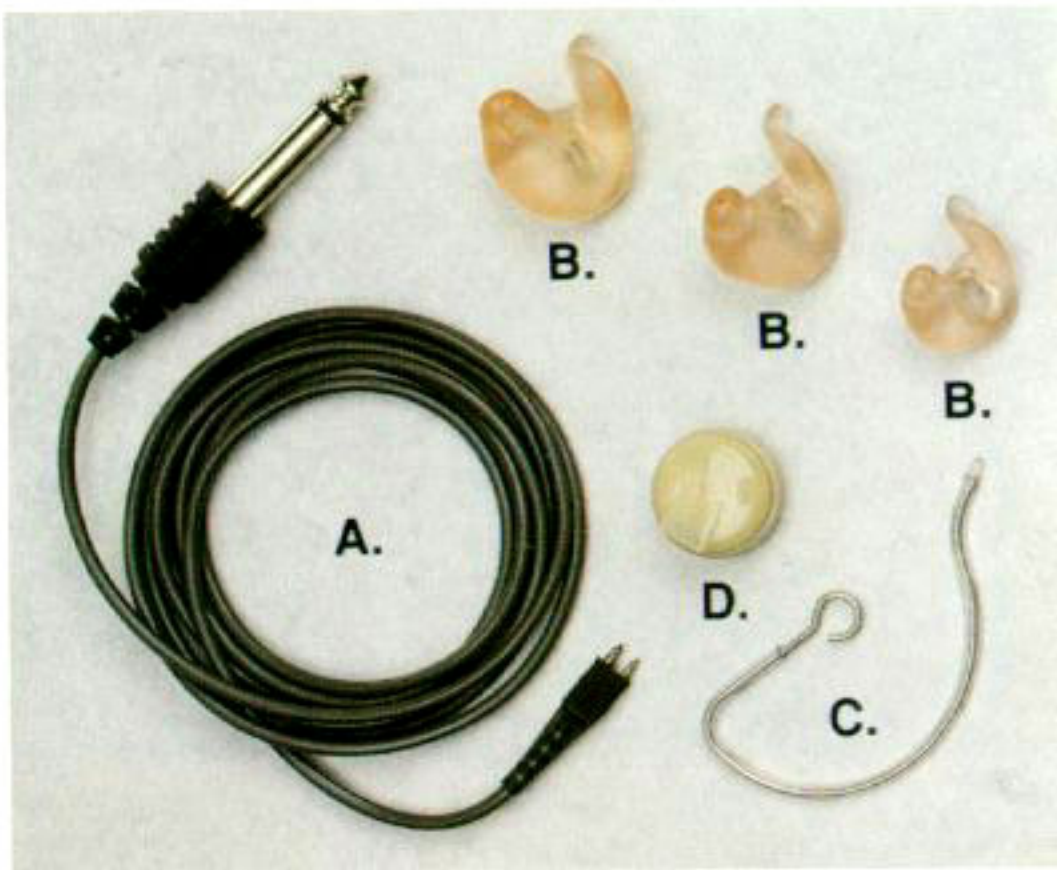
Earmolds, earcones and eartips

Standard Earset systems are supplied with a Telethin receiver and plastic earloop. For the utmost in comfort and convenience, three pliable earmolds (small, medium, large) are available as components for either the left or right ear. The receiver simply snaps into the earmold, directing sound into the ear canal and limiting ambient noise. As an alternative to the earmold, a silicone eartip or earcone which snaps to an acoustical eartube/receiver is available. A nylon or plastic

covered metal earloop that holds the receiver in place on the ear can also be ordered.

Cords

The standard Earset system comes equipped with a 5 foot, low luster grey cord with a 1/4" plug. A variety of other cords with or without volume controls are available as components. The cord with in-line volume control is equipped with a clothing clip for out of sight, waist level positioning. To avoid loss of cues, the volume control will not shut off completely.



- A. Cordsets are available with or without volume controls.
- B. Earmolds come in three sizes for left or right ears.
- C. Earloops secure receiver to ear.
- D. A variety of impedances are available in Telethin receivers.

Earset® components ordering information

To provide optimum versatility, the Announcer's Earset is made up of interchangeable component parts which simply snap together.

Depending on the component pieces selected, users can construct a version of the Announcer's Earset that best suits their particular need.

Telethin® Receivers

- A. RTR-04** (60012-000) 15 ohms
- RTV-04** (60012-003) 125 ohms
- RTW-04** (60012-005) 500 ohms
- RTX-04** (60012-007) 1000 ohms
- RTY-04** (60012-009) 2000 ohms
- B. RTW-04V** (60150-039) 500 ohms with built-in vol. control

Earmolds

- C. EML-1** (35401-014) Large, right ear
- EML-2** (35401-019) Large, left ear
- D. EMM-1** (35401-012) Medium, right ear
- EMM-2** (35401-017) Medium, left ear
- E. EMS-1** (35401-010) Small, right ear
- EMS-2** (35401-015) Small, left ear

Eartips/Earcones/ Earloops/Eartubes

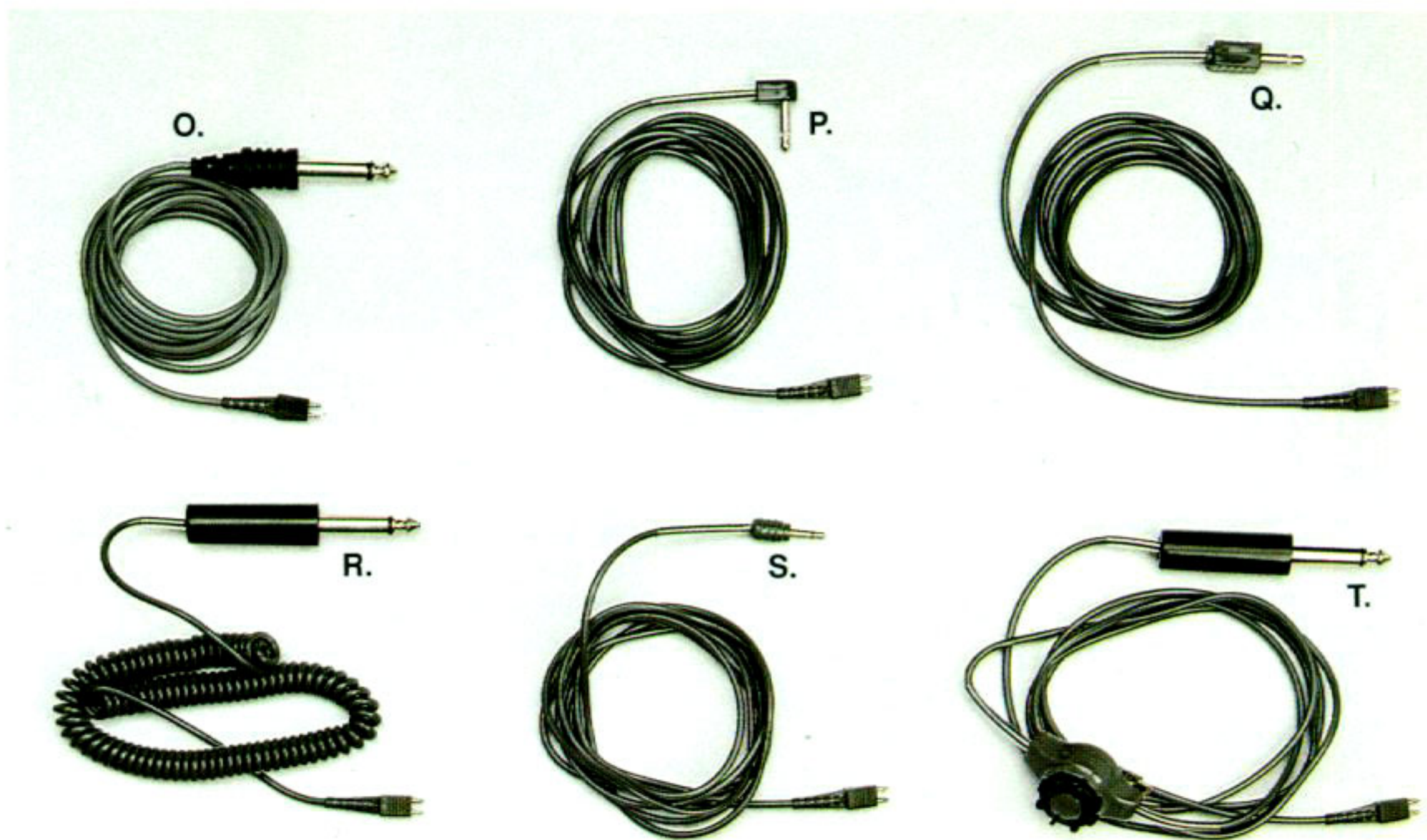
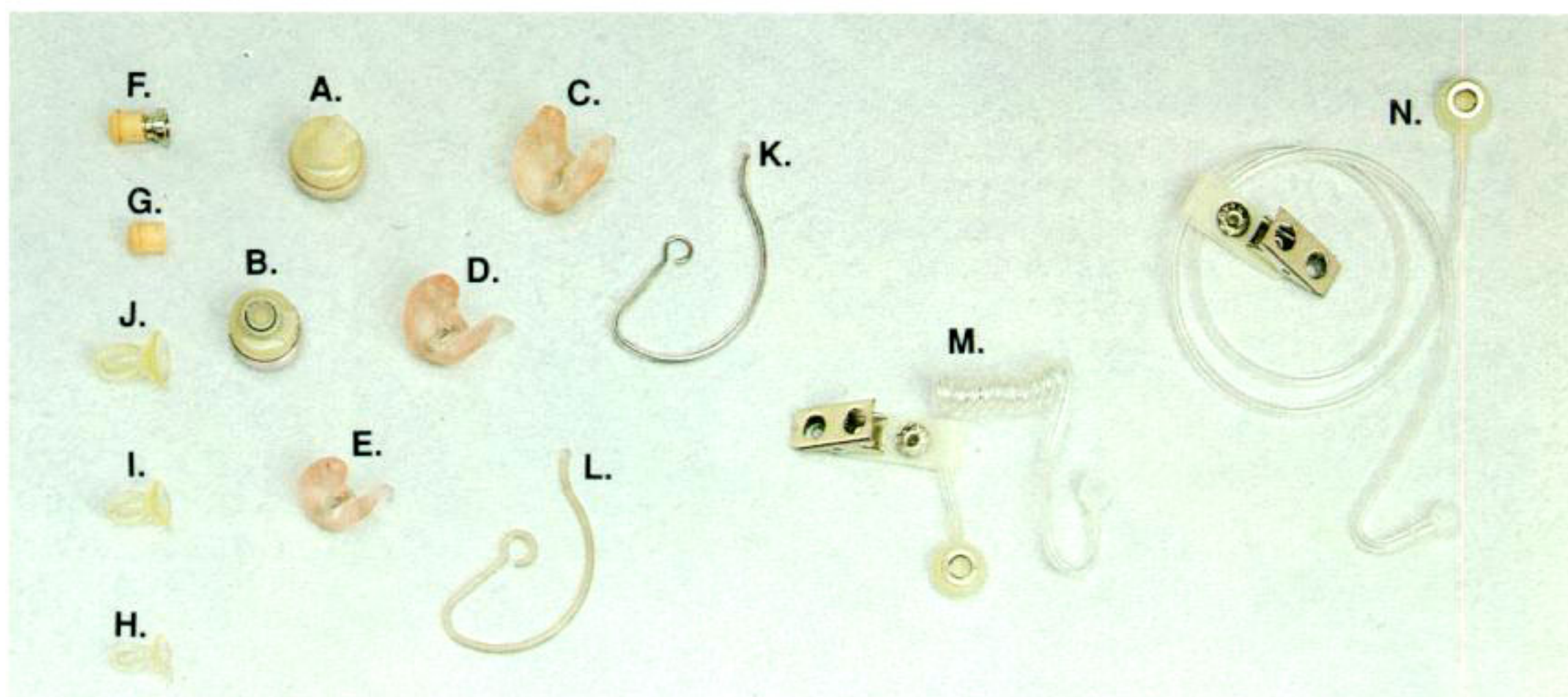
- F. ET-1** (35608-000) Soft silicone tip
- G. BT-1** (70594-000) Bag of 25 eartips for use with ET-1
- H. BT-2** (35629-012) Bag of 5 small earcones for use with ET-4 or ET-5
- I. BT-3** (35629-013) Bag of 5 medium earcones for use with ET-4 or ET-5
- J. BT-4** (35629-014) Bag of 5 large earcones for use with ET-4 or ET-5
- K. AEF-2** (09252-000) Plastic covered metal earloop fits eartip and all Telethin receivers
- L. AEF-3** (18304-000) Nylon earloop fits eartip and all Telethin receivers
- M. ET-2** (70491-000) Coiled acoustic eartube with clothing clip
- ET-4** (70491-001) Coiled acoustic eartube for earcones
- N. ET-3** (70490-000) Straight acoustic eartube with clothing clip
- ET-5** (70490-001) Straight acoustic eartube for earcones

Cords

Cords without volume controls

High-flex tinsel cords 5 foot (1.52 m) long, neutral grey, single tamper-proof jacket.

- O. CMT-2** (60013-000) Standard Earset System cord 1/4" (6.35 mm) phone plug



- P. CMT-92** (60013-013) Straight cord with miniature right angle .140" (3.56 mm) phone plug
- Q. CMT-98** (60013-015) Straight cord with miniature straight .140" (3.56 mm) phone plug
- R. CCT-2** (19652-000) Coiled 5' extended (1.52 m) cord with 1/4" (6.35 mm) phone plug
- S. CMT-95** (60013-073) Straight cord with miniature straight .097" (2.46 mm) phone plug

Cord with volume control

Volume control with clothing clip on 5' (1.52 m) straight cord with 1/4" (6.35 mm) phone plug

- T. VXT-3** (19616-001) 500 ohms
- VYT-3** (19616-000) 2000 ohms
- CCX-2** (19652-004) With right angle miniature connector

Not shown

EM-KT (400057-000) Custom earmold kit, complete service



Clear Plastic Acoustical Tubes

These inconspicuous clear plastic tubes carry the sound effectively from a Telex Telethin receiver to the talent's ear without revealing the cord to the camera. The clear tubes are available in four versions (see above). All connect easily to a Telex eartip, earcone or any size earmold and have a handy clothing clip to secure the system in place.



Hearing protection headsets

When noisy environments demand protection

With these headsets, you'll find it easier to hear, but more often, it's the protection for your hearing that's really important. After decades of experience as the premier aircraft headset company in the world, Telex has produced several models of professional headsets with technology originally developed for crucial communication in the noisy cockpit.

So, whether your need is communication in a steel mill or broadcasting from the infield at the Indianapolis Speedway, you can depend on Telex for clear communications in noisy environments.



HD-3A (63700-011)
Dual-sided monaural Hearing Protector type headset with noise cancelling dynamic microphone. Environmental Protection Agency Noise Reduction Rating (NRR) 21 dB.



PH-10 (70470-003)
Dual-sided monaural Hearing Protector type headset with noise cancelling dynamic microphone. Environmental Protection Agency Noise Reduction Rating (NRR) 24 dB.

PH-10R (70470-017)
Same as above except with A4M plug.



PH-16 (70770-003)
Dual-sided monaural earphones with noise cancelling dynamic mic. Designed to fit under a helmet. Terminated with A4F plug. Environmental Protection Agency Noise Reduction Rating (NRR) 24 dB.

Telex® ANR™ Noise Reduction Headset System

Blocking unwanted noise isn't the complete answer

Headsets with circumaural (ear encompassing) ear cushions provide some hearing protection. Some circumaural headsets are more effective than others. Some, such as the Telex PH-10 described above, have been tested and awarded an Environmental Protection Agency's Noise Reduction Rating (NRR) which describes how well they isolate the wearer from surrounding noise. For instance, the NRR rating of

24 dB currently held by the PH-10 is considered very good. These headsets reduce noise fatigue and make communication easier and safer.

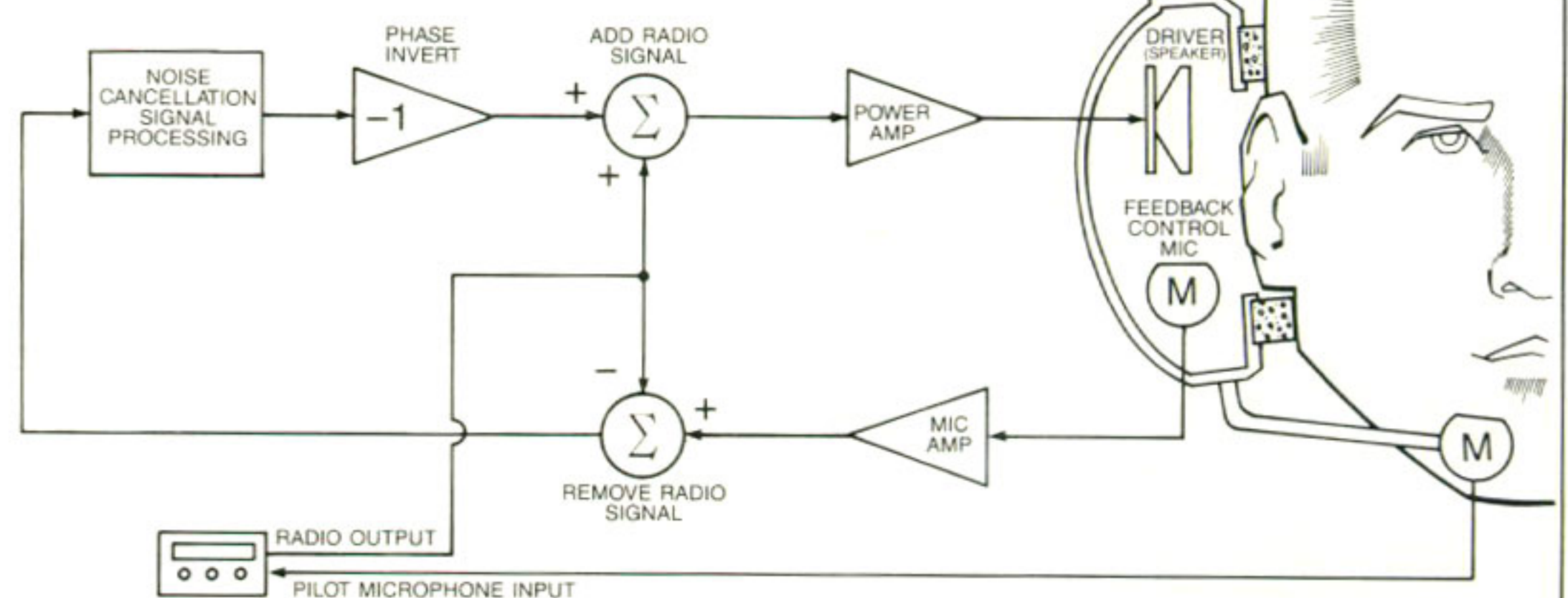
However, the noise attenuation of these headsets is uneven. High frequencies are reduced considerably, but low frequencies are attenuated very little. This drastically alters the "character" of the environmental sound remaining for the user to hear.

Telex has developed an improved concept in circumaural noise attenuating

headsets that greatly attenuates even low frequency noise, and does not distort the surrounding noise. It is the Telex ANR, an active noise reduction headset system. By using miniaturized electronic circuits with active filter feedback technology, the Telex system provides both a high amount of noise reduction and reduces all noise components equally. Therefore, it does not distort your perception of the sound around you; it just reduces everything by about 25 dB; just like turning down the volume control on your stereo. Contact Telex for ordering information.



How does ANR work?



The Telex ANR headset uses a feedback control microphone, amplifier, filter and driver in each earcup to cancel the unwanted noise. Your communication signal is fed to both amplifiers and earcup drivers. The feedback control mic in the earcup is used to sense the total acoustic pressure within the earcup. Both the desired communication signal and undesired outside noise that has come through the earcup itself is picked up by the internal mic.

The mic signal is amplified and the radio signal subtracted from it. This generates a *difference signal* which represents unwanted noise. This difference signal is then filtered, further amplified, and drives the headphone 180 degrees out of phase with the noise. Simply put, the result is to neutralize the unwanted noise detected by the microphone while allowing the desired communication signal to remain.

Ordering Information and Specifications

EARPHONE							MICROPHONE				CABLE	
V-SERIES SYSTEMS	Model No.	Catalog No.	Type	Imped. (Ohms)	Freq. Response (Hz)	Output (dB)	Type	Imped. (Ohms)	Freq. Response (Hz)	Output (dB)	Length	Termination
	V-200	300027-000	Dynamic/ Stereo	600/Side	10-20,000	85	Modular ordering concept. See page 4.				Modular ordering concept. See page 4.	
	V-210	300027-001	Dynamic/ Single	160	10-20,000	90						
	V-220	300027-002	Dynamic/ Mono	80	10-20,000	90						
ANNOUNCERS HEADSETS	PH-24	64356-000	Dynamic/ Dual/ Mono	150	50-15,000	98	Condenser Noise Cancelling	250	20-20,000	-81 re: 1 V/microbar (.089 mV)	9 ft. (2.7 m)	Underminated
	PH-25	70425-000	Dynamic/ Binaural	300/Side	50-15,000	98	Condenser Omnidirectional	250	20-22,000	-81 re: 1 V/microbar (.089 mV)	9 ft. (2.7 m)	XLR-3 and 1/4" (6.4 mm) Plug
CAMERA HEADSETS	PH-81	64438-004	Magnetic/ Single	275	200-4,000	113	Carbon Omnidirectional	20	300-4,500	-52 re: 1 V/microbar** (2.5 mV)	6 ft. (1.8 m) coiled extended	Underminated
	PH-83	64438-003	Magnetic/ Single	275	200-4,000	113	Carbon Omnidirectional	20	300-4,500	-52 re: 1 V/microbar** (2.5 mV)	10 ft. (3.0 m) coiled extended	Underminated with push-to-talk switch
	PH-85	64437-005	Magnetic/ Binaural	625 Right, 275 Left	200-4,000	113	Carbon Omnidirectional	20	300-4,500	-52 re: 1 V/microbar** (2.5 mV)	6 ft. (1.8 m) coiled extended	Underminated
	PH-87	64437-004	Magnetic/ Binaural	625 Right, 275 Left	200-4,000	113	Carbon Omnidirectional	20	300-4,500	-52 re: 1 V/microbar** (2.5 mV)	10 ft. (3.0 m) coiled extended	Underminated with push-to-talk switch
GENERAL	PH-61	64437-002	Dynamic/ Dual/Mono	600	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	5 ft. (1.5 m)	Two 1/4" plugs (6.4 mm)
	PH-62	70362-000	Dynamic/ Stereo	300/Side	50-15,000	98	Dynamic Noise Cancelling	200	50-10,000	-89 re: 1 V/microbar (.035 mV)	6 ft. (1.8 m)	Underminated y-cord
	PH-75	64438-001	Dynamic/ Single	600	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar** (.071 mV)	5 ft. (1.5 m)	Two 1/4" plugs (6.4 mm)
AUDIOCOM™ HEADSETS	PH-1	64438-005	Dynamic/ Single	150	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	5 ft. (1.5 m)	Female XLR-4 type
	*PH-1R	64438-019										
	PH-2	64437-006	Dynamic/ Dual/Mono	150	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	5 ft. (1.5 m)	Female XLR-4 type
	*PH-2R	64437-023										
	PH-3	64437-007	Dynamic/ Stereo	150/Side	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	5 ft. (1.5 m)	Female XLR-5 type
	***PH-3R	64437-024										
	PH-4	70340-000	Dynamic/ Dual/Mono	150	50-15,000	98	Dynamic Noise Cancelling	200	50-10,000	-89 re: 1 V/microbar (.035 mV)	5 ft. (1.5 m)	Female XLR-4 type
	*PH-4R	70340-008										
HEARING PROTECTION	PH-5	70350-000	Dynamic/ Stereo	300/Side	50-15,000	98	Dynamic Noise Cancelling	200	50-10,000	-89 re: 1 V/microbar (.035 mV)	5 ft. (1.5 m)	Female XLR-5 type
	***PH-5R	70350-002										
	PH-8	70415-001	Dynamic/ Mono	150	50-15,000	98	Dynamic Noise Cancelling	200	50-10,000	-89 re: 1 V/microbar (.035 mV)	5 ft. (1.5 m)	Female XLR-4 type
	*PH-8R	70415-009										
	HS-6A	96145-000	Dynamic/ Telephone Handset	200	50-6,000	113	Dynamic Omnidirectional	500	100-5,000	-74 re: 1 V/microbar (.2 mV)	4 ft. (1.2 m) coiled extended	Female XLR-4 type
	PH-10	70470-003	Dynamic/ Dual/Mono	150	50-15,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	5 ft. (1.5 m)	Female XLR-4 type
	*PH-10R	70470-017										
	HD-3A	63700-011	Dynamic/ Dual/Mono	150	100-5,000	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	6 ft. (1.8 m) coiled extended	Female XLR-4 type
MONITOR HEADPHONES	PH-16	70770-003	Dynamic/ Dual/Mono	150	100-3,500	105	Dynamic Noise Cancelling	150	100-8,000	-83 re: 1 V/microbar (.071 mV)	6 ft. (1.8 m) coiled extended	Female XLR-4 type
	PH-6	64437-012	Dynamic/ Stereo	600/Side	40-15,000	105	—	—	—	—	15 ft. (4.5 m) coiled extended	1/4" plug (6.4 mm)
	PH-7	64437-013	Dynamic/ Dual/Mono	600	50-15,000	105	—	—	—	—	5 ft. (1.5 m)	1/4" plug (6.4 mm)
	PH-11	64438-009	Dynamic/ Single	600	50-15,000	105	—	—	—	—	5 ft. (1.5 m)	1/4" plug (6.4 mm)
	PH-35	64359-000	Dynamic/ Stereo	300/Side	50-15,000	98	—	—	—	—	5 ft. (1.5 m)	1/4" plug (6.4 mm)
MONITOR HEADPHONES	PH-36	64353-000	Dynamic/ Dual/Mono	600	50-15,000	98	—	—	—	—	5 ft. (1.5 m)	1/4" plug (6.4 mm)

*Same as above, except with A4M plug.

**12 VDC supply, 50 ohms load.

***Same as above except with A5M plug.