

# TWO-WAY RADIO ACCESSORIES



OTTO specializes in communication accessories for the two-way radio market. OTTO designs and manufactures a full line of accessories and is recognized worldwide for superior performance and innovative products. OTTO is a vertically integrated manufacturer with in-house injection molding, stamping, CNC machining, cable assembly and cable over molding capabilities. Our strong mechanical, electrical and RF Design Engineering capability, world-class test lab and computer controlled production line testing is unmatched in the industry.

OTTO's accessories are designed for use by security, surveillance, public safety, emergency medical teams, SWAT, fire fighters, HAZMAT and other law enforcement professionals along with food service, hospitality, entertainment and industrial markets. OTTO provides a full line of accessories including surveillance kits, lightweight and heavy-duty headsets, ear hangers, remote speaker microphones, skull and throat microphones. OTTO supports a wide range of radio platforms providing accessories to most major two-way radios.

Contact OTTO for all IS approved products - UL/CSA for North America, ATEX for Europe, and IECX for International certifications.

**OTTO**  
Expect Excellence.



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**OTTO**  
Expect Excellence.



## SPEAKER MICROPHONES

OTTO offers an extensive line of Speaker Microphones that outpace the competition in performance. OTTO's speaker microphones offer versatility, durability and reliability. They are the preferred remote speaker microphone in the Public Safety Market and are also used in construction, manufacturing, retail and hospitality environments.

### LEGACY

- Heavy-duty cable assembly with strain relief
- Earphone jack that accepts a unique 2.5mm plug
- Flexible design to fit most portable radio configurations
- Clothing spring clip which can be positioned 360 degrees
- Optional earphone kit available

### PROFILE

- Housing fully sealed to meet harsh conditions like 40mph blowing rain
- Durable design and construction to meet MIL-STD-810 specs
- Heavy-duty cable assembly with strain relief
- Earphone jack that accepts standard 2.5mm plugs
- Flexible design to fit most portable radio configurations
- Clothing spring clip which can be positioned 360 degrees
- Optional 2.5mm earphone kit available

### EVOLUTION

- Sealed housing to withstand MIL-STD-810 40 mph blowing rain
- Adjustable high/low volume control
- 2.5mm earphone jack for optional earphone accessories
- Clothing spring clip which can be positioned 360 degrees
- Optional emergency button and antenna connector models available
- Spare parts available for repair



### STORM

#### Standard Features

- Contoured design for easy handling
- Immersion rated, fully sealed per IP68 standard\*
- Larger Push-to-Talk, with positive tactile feedback
- Samarium cobalt high-output speaker
- Push-button volume control
- Earphone jack isolated from main housing for seal integrity
- Improved flex life on cables
- Field-replaceable belt clip that rotates 360 degrees
- Connectorized design to eliminate solder joints for easier repair
- Durable design and construction to meet MIL-STD-810 specs

#### Optional Features

- Range-tested antenna
- Emergency button with protective shroud
- True noise-canceling microphone
- Super bright LED flashlight with push-button on/off
- Auxiliary connector: Connectivity to additional accessories, such as SCBA equipment, and Programming capabilities such as key loading or cloning



\* IP68 standard is submersion in 1 meter of water for 31 minutes





## SPEAKER MICROPHONE ACCESSORIES

OTTO offers a variety of accessories to work in conjunction with many Speaker Microphone models. Some of these accessories can be worn under protective clothing and provide the user with multiple ways of communication.

### GENESIS: OPTIONAL ACCESSORIES

- Speaker always remains active even when accessories are attached
- When accessories are engaged, Genesis can be used as a remote Push-to-Talk
- Accessories can be worn under protective clothing
- Accessory connector is sealed per IP68 standard\*

### EARPHONE KITS (Excludes Genesis)

- Lightweight earphone, rubber ear tip and clothing clip
- Low-profile, flexible, transparent acoustic tube
- Designed to fit either the left or right ear
- Quick disconnect earphone adapter for easy replacement of any one component
- Listen-only device
- 2.5mm or 3.5mm connectors available

### EAR HANGER (Excludes Genesis)

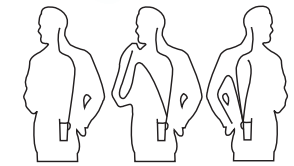
- Soft rubber ear loop with speaker
- Adjusts to fit either the left or right ear
- Listen-only device
- 2.5mm connector available

\* IP68 standard is submersion in 1 meter of water for 31 minutes



## PROFESSIONAL SURVEILLANCE KITS

OTTO sets the standard in durability, reliability and performance for Surveillance Kits. Experience high-clarity, two-way radio transmissions that are unnoticed by others around you. Not just for "surveillance" purposes anymore, these kits are perfect for security at airports, casinos, manufacturing plants, crowd control at conventions and concerts, and others working in environments requiring discrete communications.



### ONE, TWO AND THREE WIRE EARPHONE KITS

- Lightweight earphone, rubber ear tip, radio connector and clothing clip
- Low-profile, flexible, transparent acoustic tube
- Quick disconnect earphone adapter for easy replacement of any component
- Flexible, high-grade cable for demanding applications
- Black or beige color options



## WIRELESS ACCESSORIES

OTTO's Wireless Ear Receivers make your OTTO Two and Three Wire kits perfectly covert! The Wireless Ear Receiver fits securely in your ear canal and is comfortable and almost invisible. It is used in conjunction with either the Flat Pack or Neck Loop which creates the inductive field that transmits the radio's sound to the Wireless Ear Receiver. The Ear Receiver is available in Conventional or Squelched models. The Squelch technology minimizes electric field interference making the unit silent in the absence of incoming transmission.



Wireless Receiver eliminates the need for an acoustic tube

### WIRELESS RECEIVER

- Small lightweight unit which fits comfortably inside the ear
- Includes carrying pouch, 15 wax filters, four battery pack and tool
- Standard and Squelched versions available
- Available in beige (shown) or dark brown



### FLAT PACK

- Creates inductive field that carries the transmission to the Wireless Ear Receiver
- Standard two-pin connector provides quick connection to a two or three wire kit



### NECKLOOP

- Creates inductive field that carries the transmission to the Wireless Ear Receiver
- 28" or 49" lengths available in beige color
- Standard two-pin connector provides quick connection to a two or three wire kit



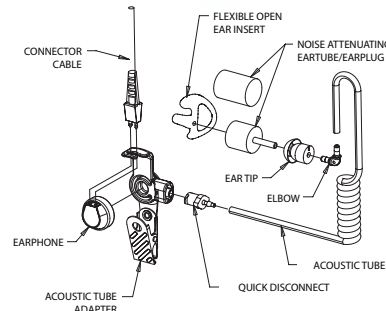


## ACCESSORIES FOR PROFESSIONAL SURVEILLANCE KITS

Modular Earphone Accessories provide even more flexibility to users in multiple shifts sharing equipment or to those who need options when moving from a high noise to low noise environment.

### FLEXIBLE OPEN EAR INSERTS

- Open frame design allows user to hear ambient noise
- Molded from hypoallergenic material
- Available in three sizes and can accommodate right or left ear use
- Designed to be worn for long periods of time



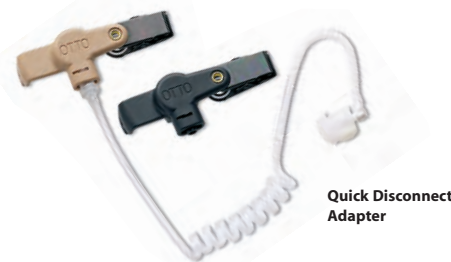
### NOISE-ATTENUATING KIT

- Provides additional hearing protection
- Certified noise reduction rating (NRR) of 25dB
- Comfortable adjustable yellow foam ear inserts



### QUICK DISCONNECT ADAPTER

- Black or beige color options
- Unique cable retention feature eliminates strain on the earphone
- Allows users to easily replace or alternate acoustic tubes (i.e. multiple shift operations)



## COMMERCIAL MONITORING KITS

OTTO sets the standard in durability, reliability and performance for Earphone Kits. Experience high clarity, two-way radio transmissions that are unnoticed by others around you. Not just for "surveillance" purposes anymore, these kits are perfect for crowd control at conventions and concerts, hotel staff, retail employees, restaurant staff and others working in environments requiring discrete communications.

### ONE WIRE EARBUD KIT

- Single earbud adjusts to fit either the left or right ear
- In-line mini Push-to-Talk with microphone and clothing clip
- Listen-only device



### ONE WIRE MONITORING KIT

- Lightweight, single wire earphone kit
- Mini Push-to-Talk and microphone with durable clothing clip
- High quality earphone speaker
- Quick disconnect acoustic tube



### TWO WIRE EARBUD KIT

- Earbud style earphone with foam cover
- Mini Push-to-Talk with clothing clip
- Designed for the hospitality and retail markets

### EAR HANGER WITH IN-LINE MICROPHONE

- Soft rubber ear loop with speaker
- Adjusts to fit either the left or right ear
- Clothing clip on Push-to-Talk
- In-line mini Push-to-Talk with microphone



### EAR HANGER WITH BOOM

- Soft rubber ear loop with speaker
- Swivel boom microphone for left or right positioning
- In-line mini Push-to-Talk with microphone



### EAR LOOP WITH EARBUD

- Single earbud with comfortable loop
- Designed for left or right ear use
- Miniature Push-to-Talk and microphone with clothing clip



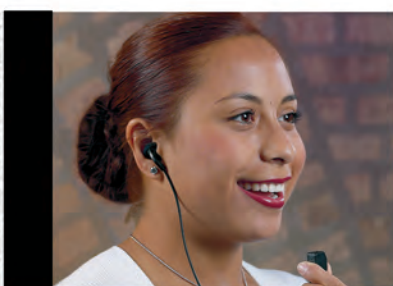
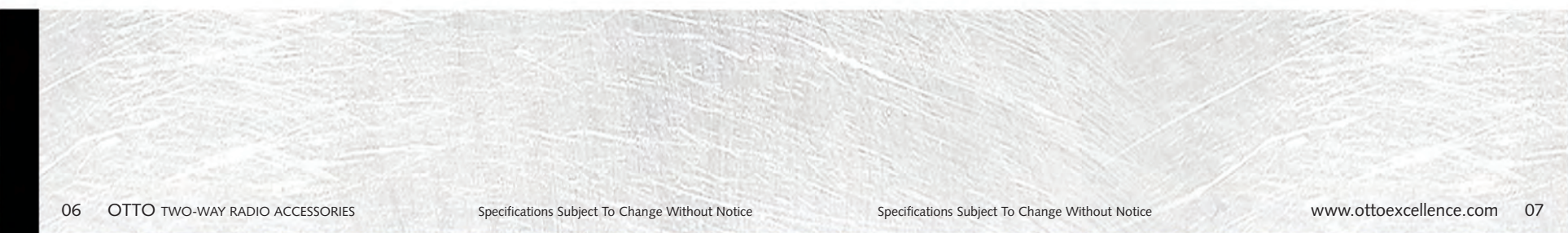
### MINI-COM

- Lapel speaker
- Eliminates the need for an ear piece
- In-line mini Push-to-Talk with microphone
- Clothing clip on Push-to-Talk



### LIGHTWEIGHT

- Single speaker lightweight headset
- Swivel boom microphone for left or right positioning
- Adjustable headband
- In-line mini Push-to-Talk with microphone





## LIGHTWEIGHT HEADSETS

OTTO offers a variety of Lightweight Headsets with exceptional audio quality. These headsets ensure discrete two-way radio communications while providing the additional comfort necessary for extended wear. Most models are available with or without Push-to-Talk options. These headsets are ideal for bike safety patrols, hotel, restaurant and other hospitality staff, event coordinators and others in the entertainment industry and for anyone working in a moderate noise environment.

### EXPLORER

- Quick disconnect acoustic tube with multiple ear insert options
- Flexible contoured ear hanger that can be easily adjusted
- Right or left ear compatibility
- Swivel boom microphone for left or right positioning

### LIGHTWEIGHT

- Flexible boom microphone with replaceable windscreen
- Comfortable adjustable foam cushion or metal headband
- Replaceable foam ear cushions with optional cloth covers
- Fully rotating boom microphone for left or right positioning
- Optional in-line Push-to-Talk available

### BREEZE

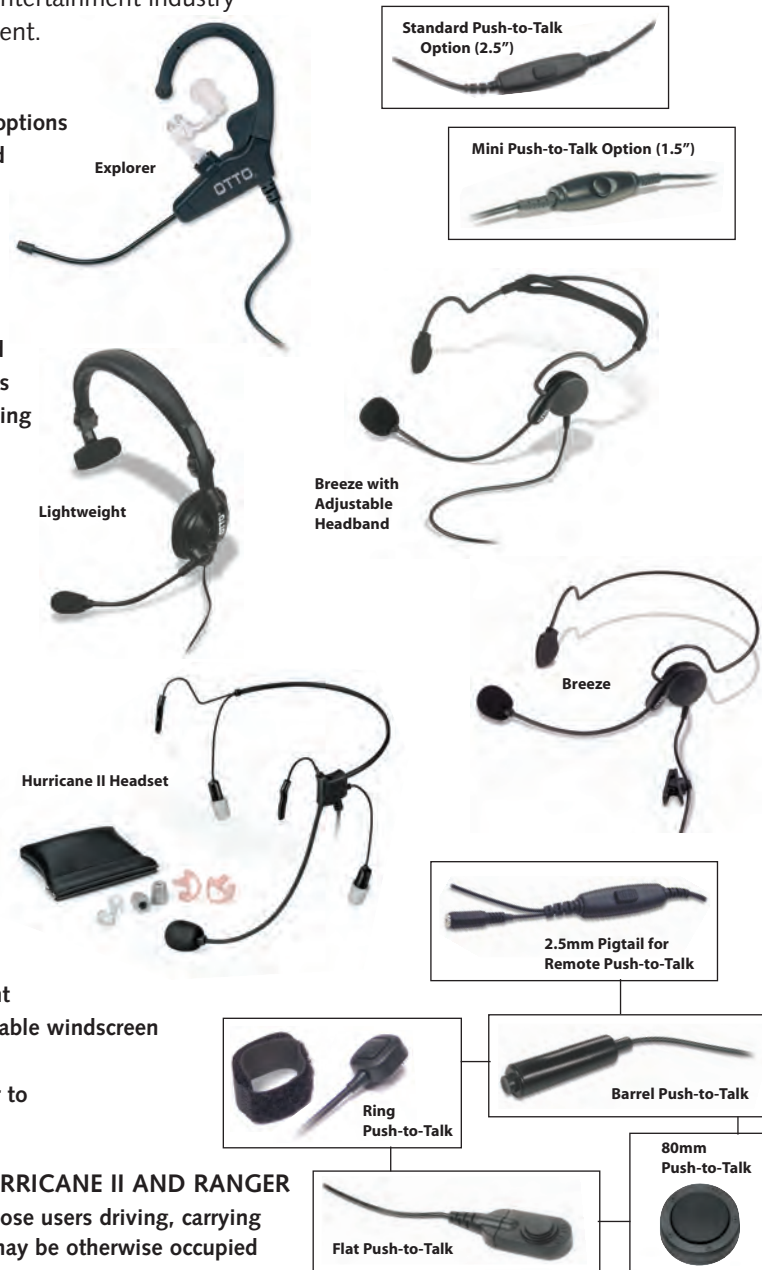
- Behind-the-head style with single left earphone
- Designed for extended wear in active environments
- Ultra lightweight frame for superior comfort and fit
- Flexible boom microphone with replaceable windscreen
- Adjustable headband available on certain models
- Can be worn under helmet or cap

### HURRICANE II

- Behind-the-head style headset with dual ear inserts
- Performance of a heavy-duty headset without all of the weight and bulk
- Provides noise reduction with use of NoisEz<sup>SM</sup> Ear Tips (29dB)
- Multiple ear insert options included
- Easily converts from high noise to low noise environment
- Flexible, noise-canceling boom microphone with replaceable windscreen
- Can be worn under helmet or cap
- Optional Remote Push-to-Talk jack available allows user to Push-to-Talk against tools, steering wheel or weapon

### REMOTE PUSH-TO-TALK OPTIONS FOR BREEZE, HURRICANE II AND RANGER

- Provide the ability to have “hands-free” operation for those users driving, carrying weapons or tools or any application where their hands may be otherwise occupied



## HEAVY DUTY HEADSETS

The OTTO Heavy Duty Headsets offer high clarity sound and additional hearing protection necessary for consistent, clear communication in high noise environments. Most models are available with or without Push-to-Talk options. Perfect for use by manufacturing plant engineers, industrial processing technicians, construction teams, airport personnel, racing crews or in any high noise environment.

### HURRICANE II

- Behind-the-head style headset with dual ear inserts
- Performance of a heavy-duty headset without all of the weight and bulk
- Extreme noise-canceling microphone available on certain models (19dB)
- Provides noise reduction with use of NoisEz<sup>SM</sup> Ear Tips (29dB)
- Multiple ear insert options included
- Easily converts from high noise to low noise environment
- Flexible, noise-canceling boom microphone with replaceable screen
- Can be worn under helmet or cap

### RANGER

- Behind-the-head style with single left speaker
- Speaker rotates on the steel frame to allow for adjustment
- Flexible, noise-canceling left boom microphone with replaceable windscreen
- Water, wind and dust proof for harsh environments

### OVER-THE-HEAD AND BEHIND-THE-HEAD

- Heavy-duty headset with certified noise reduction rating (NRR) of 24dB
- Comfortable, dual cloth-covered ear seals
- Flexible, noise-canceling boom microphone with replaceable windscreen
- Rotating boom microphone for left or right positioning (Over-the-Head only)

### CLEARTRAK

- Heavy-duty headset with certified noise reduction rating (NRR) of 24dB
- Built with an extreme noise-canceling microphone (3dB – Standard) (19dB – ClearTrak)
- Comfortable, dual cloth-covered ear seals
- Push-to-Talk switch located on earcup





### TACTICAL, FIRE AND HAZMAT

OTTO offers a variety of accessories for many tactical applications. The modular Skull Microphone, Ear Cup Receiver, 80mm Body Push-to-Talk, the Throat Microphone System and the Tactical Headsets provide clear and consistent communications for the following recommended applications: SWAT, Hazardous Materials Response, correctional facilities and public safety.

#### TACTICAL I

- Clips to a helmet with a secure locking clip
- Boom microphone with coiled cord easily attaches to chin strap
- Adjustable earpiece
- Quick disconnect cable
- Barrel Push-to-Talk with protective cover
- Waterproof



#### TACTICAL II

- Designed to fit under a helmet or cap
- Soft rubber ear cup designed for comfort
- Larger size ear cup ensures clarity
- Flexible boom microphone for easy adjustments
- Velcro® head strap and elastic headband ensure a secure fit



#### TACTICAL III

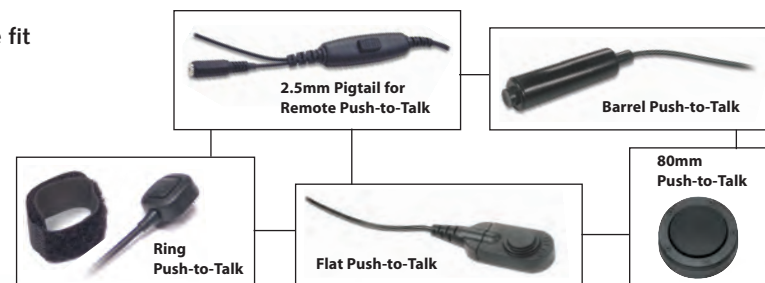
- Designed to fit under a helmet or cap
- Combination speaker and boom microphone slide into Velcro® pocket
- Flexible boom microphone for easy adjustment
- Mesh over-the-head strap and elastic headband ensure a secure fit

#### TACTICAL IV

- Designed to fit under a helmet or cap
- Combination speaker and boom microphone slide onto headband
- Flexible boom microphone for easy adjustments
- Mesh style headband with Velcro® tab ensures a secure fit

#### REMOTE PUSH-TO-TALK OPTIONS

- Provide the ability to have “hands-free” operation for those users driving, carrying weapons or tools or any application where their hands may be otherwise occupied



#### THROAT MICROPHONE SYSTEM

- Microphone picks up even a whisper
- Adjustable elastic strap for a comfortable fit
- Push-to-Talk options for use with protective clothing and special applications
- Additional ear insert options available



#### SKULL MICROPHONE SYSTEM

- Picks up user's voice through bone vibrations
- Comfortable molded rubber Skull Mic and ear cup
- Push-to-Talk options for use with protective clothing and special applications
- Adaptable to most helmet configurations

### HELMET COMMUNICATION KITS

OTTO Helmet Communication Kits for SWAT, Military and Motorcycle Helmets provide a complete high performance in-helmet solution for all users for padded helmets. Two in-helmet speakers, microphone and adjustable remote Push-to-Talk are included in each kit. Modular design, with quick disconnects and cord coil at key points between components, allows for maximum comfort and optimal configuration for each type of user.

#### FEATURES

- The adjustable remote Push-to-Talk can be worn on the hand, attached to a riot shield, or to a motorcycle handle bar
- The microphones' and speakers' performance characteristics are optimized for excellent transmission and reception in high noise applications
- Speakers, boom microphones and in-helmet microphone include Velcro® pads for ease of installation. No tools or modification to the helmets are required for installation
- For full face helmet, order the in-helmet microphone
- For open face helmet, order the boom microphone





## REPLACEMENT PARTS

OTTO offers select replacement parts for several product lines including headsets, speaker microphones and surveillance accessories. Replacement parts include cable assemblies, earphone options, windscreen and cloth earphone covers and other key component parts.



## ADAPTERS

OTTO has designed various radio adapters to allow the use of radio accessories with radios that have a unique accessory interface. In addition, for specific radio models, adapters are available which allow the interchangeability of one set of accessories on multiple radio models.

### ADAPTERS

- Allows connection to various headset and earphone options
- Several radio model adapters available





## CONNECTORS

OTTO supports a wide range of radio platforms providing accessories for most major two-way radios. Below is a current listing of the many radio connectors that are available. Contact OTTO for additional connector options that may not be listed here.



12 Pin Circular Connector



2.5mm vs 3.5mm Plug Comparison



EF Johnson 5100  
(With adapter V1-10842)



EF Johnson 7780/8100 Series



ICOM F30G-F40G Molded Connector  
ICOM 50-60



ICOM F3-F4 2.5mm-3.5 Plug



ICOM F3G, F4G 2.5mm-3.5mm Plug



ICOM F33/F43



Kenwood TK250 2.5mm-3.5mm Plug



Kenwood TK480 Assembled Connector



M/A-COM EDACS 300P  
Assembled Connector



M/A-COM Jaguar 700P/P7100  
Assembled Connector



M/A-COM KPC-Panther 500P  
Assembled Connector



M/A-COM MPA-MPD  
Assembled Connector



M/A-COM Panther 300P  
2.5mm-3.5mm Plug



M/A-COM PCS  
Assembled Connector



M/A-COM MRK  
Assembled Connector



M/A-COM Prism LPE  
Assembled Connector



Maxon 6 Pin Circular Connector  
(Also works on M/A-COM Monogram)



Maxon SP200/Legacy Single Pin



MaxonSP120/Midland 80 Series



Motorola GP300 2.5mm-3.5mm Plug



Motorola EX500/GP344



Motorola HT1000 3.5mm Threaded Plug



Motorola HT1000 Adapter (V1-10335)  
(Only used with 3.5mm Accessories)



Motorola HT1000  
Assembled Connector



Motorola HT750 Assembled Connector



MHT/MTP Series



Motorola Saber  
Assembled Side Connector



Motorola Saber  
6 Pin Hirose Connector



Motorola SP10, SP21  
2.5mm-3.5mm Plug



Motorola Spirit  
GT-GT+FP9 2.5mm Plug



Motorola Visar



Motorola XTS3000 Antenna  
Assembled Connector



Relm Wireless GPH, DPH



Relm Wireless RPU416, RPU516



Relm Wireless RP3000, RP3600



SRP/SRH3XXX



Tait Orca  
(Use with adapter TOPA-AA-005)



Thales 6 Pin Circular Connector  
(Used with adapter 85305)



Vertex VX10, VX300  
Single Pin Connector



Vertex VX-210, VX400



Vertex VX500 2.5mm-3.5mm Plug



Vertex VX800 Assembled Connector  
Vertex VX537 (Different Wiring)



Vertex VX-820/920  
Assembled Connector

