



Defence &  
Public Safety

**COMHEAD**<sup>®</sup>

PROTECTIVE EAR TO EAR COMMUNICATION



# 3M Defence & Public Safety

**COMHEAD**<sup>®</sup>

PROTECTIVE EAR TO EAR COMMUNICATION



Comhead Headset Company GmbH  
Borsteler Chaussee 51  
22453 Hamburg  
Germany

[www.comhead.de](http://www.comhead.de)  
[info@comhead.de](mailto:info@comhead.de)  
+49 40 500 580 20

EMEA Region

### Mission First.

For over 75 years, 3M has been delivering innovative protective solutions to military personnel, committed to helping increase operational effectiveness and mission safety in high-risk environments.

### Mission Ready.

Fueled by proprietary technologies and innovative designs, 3M's holistic solutions help address the unique requirements of the modern warfighter.

### Mission Effective.

3M's personal protective solutions are designed and perfected to improve the warfighter's survivability while enhancing sustained combat and combat support operations.



## 3M Safety and Communications Solutions for Defense



Tactical Communication Headsets



Electronic Earplugs



Earmuffs



Earplugs



Head Protection



Protective Eyewear



Full Face Respirators



Powered Air Purifying Respirators (PAPRs)



SCBA

## Support that goes beyond.

3M is more than just high-quality, reliable products. Thanks to our long-standing and active involvement in the defence industry for many decades, our experts can support your team's technical, regulatory, application, and training needs.



Training & Education



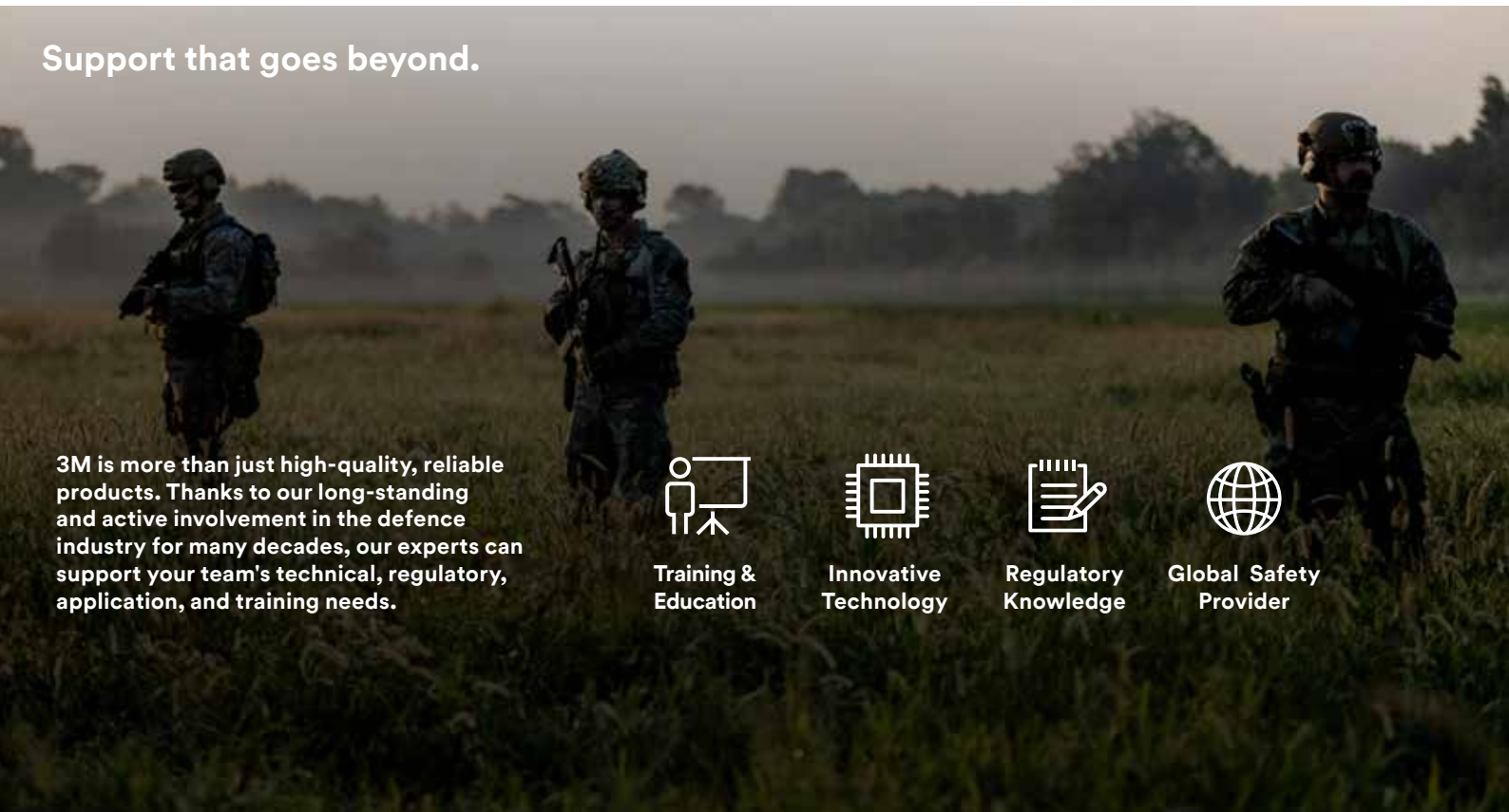
Innovative Technology



Regulatory Knowledge



Global Safety Provider





# Contents

<b>PELTOR™ Communication and hearing protection</b>	<b>4</b>
Knowledge about hearing	6
Functions & Features	8
<b>Tactical Modular Audio System (TMAS)</b>	<b>12</b>
System Control Unit, SCU-300	14
Remote Control Unit, RCU-300	16
ComTac™ VII Headset	18
Tactical Earplug, TEP-300	20
<b>ComTac™ Headset Solutions</b>	<b>22</b>
ComTac™ VI NIB Headset	24
ComTac™ VIII Headset	26
ComTac™ Series Comparison Chart	28
ComTac™ Series Attenuation Values & Selection matrix	30
<b>Spare Parts and Accessories</b>	<b>32</b>
<b>Tactical Earplug Solutions</b>	<b>34</b>
Tactical Earplug, TEP-200 EU	36
<b>High Attenuation Headsets</b>	<b>38</b>
CH-5 High Attenuation Headset	39
<b>Level-dependent Headset Range</b>	<b>40</b>
WS™ LiteCom Plus Headset	40
WS™ ProTac™ XPI Headset	40
<b>Adapters &amp; Cables</b>	<b>42</b>
<b>Hygiene Kits &amp; Gel Sealing Rings</b>	<b>46</b>
<b>Earmuffs &amp; Earplugs</b>	<b>48</b>
X Series Earmuffs	49
Bull's Eye™ Earmuffs	50
E-A-Rfit™ Dual-Ear Validation System	51
E-A-R™ Classic™ Earplugs	52
<b>Protective Eyewear</b>	<b>54</b>
SecureFit™ Safety Glasses 600 Series	56
GoggleGear™ Safety Goggles 6000 Series	57
<b>Protective Apparel</b>	<b>58</b>
<b>Respiratory Protection Solutions</b>	<b>60</b>
<b>Protection for Maintenance &amp; Repair Operations</b>	<b>63</b>



**PELTOR™**  
Protection & Communication

# Communication and Hearing Protection

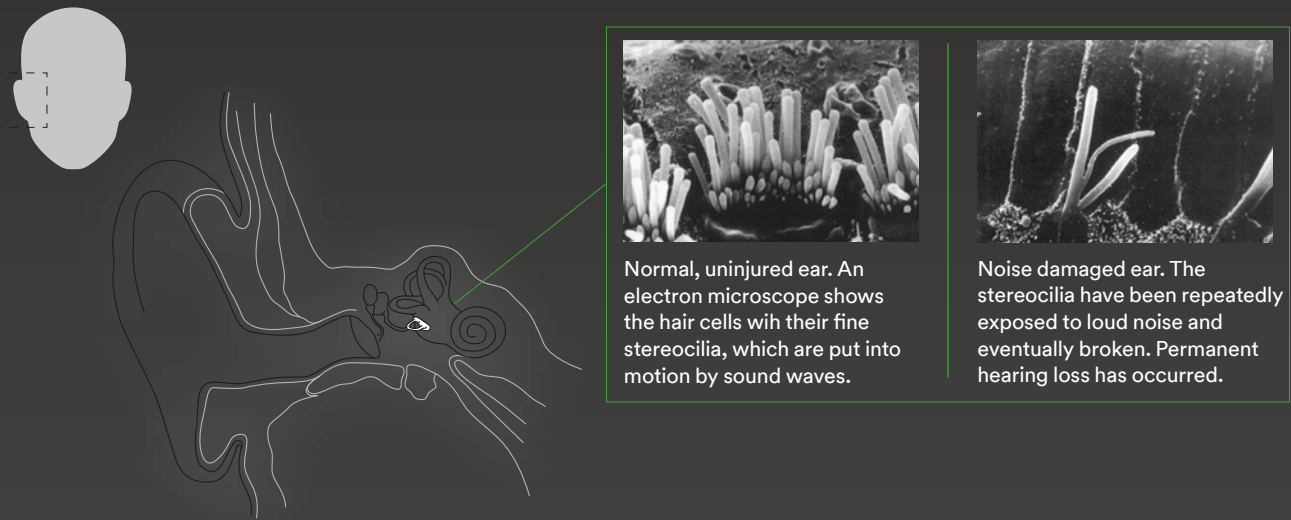






# Easy To Damage – Important To Protect

The human ear is well designed to pick up low levels of natural sounds and speech. Most military weapons, equipment, and vehicles produce a range of hazardous sounds. When the ear’s sensory hair cells are repeatedly exposed to excessive doses of noise, they are damaged. The surviving hair cell stereocilia can only transfer a portion of the energy needed to detect and understand sound. Too much noise for too long can cause permanent hearing damage and tinnitus, or ringing in the ears.



## The importance of wearing hearing protection 100% of time exposed

### Safety

The risk assessment for noise-induced hearing loss is based on long-term exposure to continuous noise. If hearing protection is used 100% of the time exposed to noise the protection performance corresponds to the stated sound attenuation values. If the wear time is reduced, the noise exposure while unprotected will result in a significant contribution to the dose. If the wear time is considerably reduced, the exposure just from the unprotected time period will exceed the maximum allowed dose.

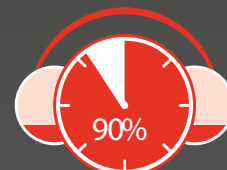
The 3M™ PELTOR™ Headsets with level-dependent microphones for ambient listening encourage longer use because the wearer may feel less isolated and may communicate with others more easily.



**100 % usage**  
Gives the expected protection



**99 % usage**  
Just few minutes of unprotected exposure to hazardous noise per day, significantly increases the risk of hearing damage



**90 % usage**  
Significantly limited





# A few minutes of inattention

Damaged hearing cannot be reversed. Exposure to hazardous noise is one of the most common causes of hearing impairment.

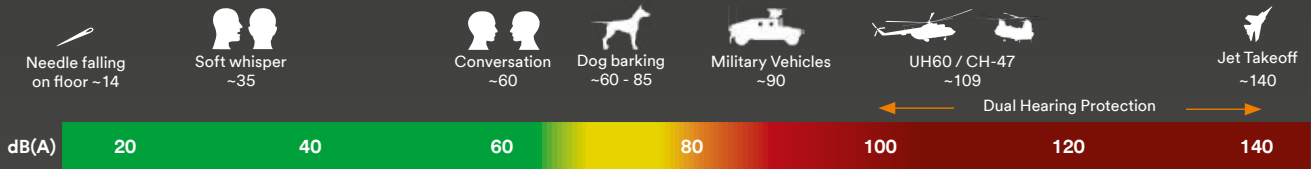
## What makes sound hazardous?

Sound can be continuous, impulsive, or a combination of both. The risk to hearing is not the same for all types of sounds. In general, the hazard depends on the combination of how loud the sound is and how long you hear it: louder and longer means greater risk to hearing. The sound is louder the closer you are to it. For impulsive noise – short blasts that last less than one second - the risk to hearing goes up for higher peak sound levels and the more times the impulsive sound is repeated. For impulsive noise, even one loud event can cause permanent hearing damage and/or ringing in the ears.

## Continuous noise

Prolonged unprotected exposure above 80 dB(A) may cause hearing loss.

Wear hearing protection to help reduce exposure.\* Wear dual hearing protection, such as earplugs & earmuffs together, for extreme noise exposure.



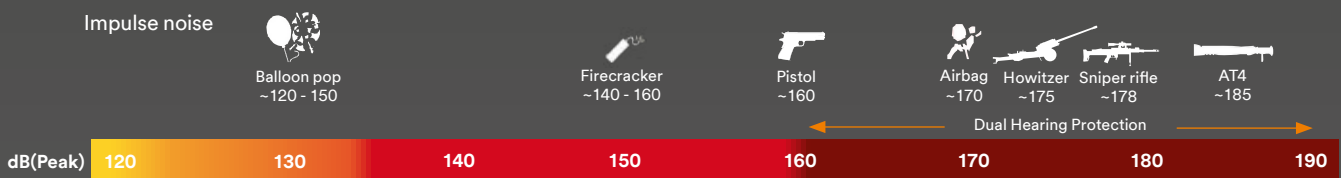
These examples are representative of typical sound levels dB(A) for these events and are used here for illustration purposes only. \*Verify hearing protection requirements with local regulatory bodies.

## Impulsive noise

Impulsive sounds are very short (less than 1 second) such as gunfire, explosions or the “pop” of a pneumatic nail gun. These sounds typically have extremely fast onset and often reach very high sound pressure levels (SPL).

Unprotected exposures greater than 135 dB peak may cause permanent hearing loss. Wear hearing protection to help reduce exposure.\*

The risk to hearing increases with repeated exposures over time, however a single unprotected exposure can result in permanent, instantaneous damage.



These examples are representative of typical peak sound pressure levels (dB peak) for these events and are used here for illustration purposes only. \*Verify hearing protection requirements with local regulatory bodies.



**PELTOR™**  
Protection & Communication

# Functions and Features





# New advanced level-dependent function for environmental listening



Mission Audio Profiles

The environmental microphones help the users to listen to ambient sounds and communicate face-to-face in lower noise environments, all while wearing hearing protection.

The ComTac™ VI Headset introduces an advanced listening feature: **Mission Audio Profiles (MAP)** allowing the user to adapt and optimize the environmental listening function to different scenarios.



### Mission Audio Profile 1: Silent

ComTac VI features the capability to turn the environmental listening function off, while not powering down the headset. This may be beneficial in high noise environments where the least amount of outside sound is desired to help with communications.



### Mission Audio Profile 2: Comfort

Low volume and narrow frequency response to be used when in noise for long periods of time (tactical vehicle, air transport) where environmental listening is not prioritized over communications and overall comfort.



### Mission Audio Profile 3: Conversation

Maximizes the frequencies important for face-to-face communications for the natural speech while lowering the frequencies outside of the average speech band.



### Mission Audio Profile 4: Patrol

High volume with reduced high frequencies to limit sounds such as footsteps on gravel, grass moving under feet, equipment moving on body.



### Mission Audio Profile 5: Observation

Highest volume and widest frequency response to maximize hearing. To be used when the user is still (overwatch, hide spot, stop to listen, etc).

# Natural Interaction Behavior (NIB)

NIB enables short-range, full duplex, headset-to-headset intra-team communication without the use of an external radio.

Audio transmit is activated by either a voice activated switch (VOX) for hands free operations (in noise) or by push-to-talk.

Up to **60**  
Listeners Within  
Talkers Transmission  
Range



**0-5 meters**  
Line-of-Sight  
Rx/Tx

**4** Full-Duplex,  
Simultaneous  
Talkers





The NIB function is easy to use. Team members in proximity of each other (0 to 5m optimal - 6 to 10m starts to fade ) will be automatically connected (when the NIB function is on) with full duplex communications.

4 people can transmit simultaneously via PTT or VOX.

A PTT button is located in the back of the left ear cup that allows the user to easily turn NIB on or off, switch from VOX to PTT settings, and manually transmit via PTT.



## ≈80dB NIB VOX Function Activation

When VOX Mode is enabled, NIB offers hands free communications, automatically, as the noise in the surrounding environment increases (approximately 80dB and above). PTT mode can also be set if the operator wants to manually control the voice transmit.





ComTac™ VII Headset

Tactical Earplug, TEP-300

System Control Unit, SCU-300

Remote Control Unit, RCU-300





# 3M™ PELTOR™ Tactical Modular Audio System (TMAS)



3M™ PELTOR™  
System Control Unit, SCU-300  
Remote Control Unit, RCU-300

3M™ PELTOR™  
ComTac™ VII Headset

3M™ PELTOR™  
Tactical Earplug, TEP-300

TMAS is 3M's newest generation of tactical communication and hearing protection, developed to help operators effectively communicate in dynamic noise environments. The new system brings forward our next generation ComTac VII headset and TEP-300 earplug with new looks, improved systems integration, and enhanced auditory situational awareness to help give operators a tactical edge during operations.

TMAS features clear, reliable wireless communication that removes the cable(s) between the headset and Push-To-Talk (PTT), helping to increase overall mobility.

Additionally, the system comes equipped with a new remote PTT, that can be mounted on the weapons rail – giving operators the capability to transmit and adjust volume without having to remove their hand from the weapon.

The system offers flexibility and scalability to address the needs of the modern soldier, with the ability to manage legacy and future radio systems.

Welcome to the next generation of communication capability from 3M PELTOR.

3M™ PELTOR™

# System Control Unit - SCU-300

## Communications Integration

- Single, DUAL, and Multi COMMS configurable
  - Up to 3 Physical Communication Connections
  - Up to 6 two-way audio streams
- Single Channel Radio, Multi-Channel Radio, and ICS Connectivity
- Bluetooth® cell-phone connection capable\*

## Audio Management

The SCU can handle multiple radios, with multiple channels. In such scenarios, the user is able to select one of three preset sound profiles:

### Mix:

Radio communication(s) are heard equally in both left and right ear.

### Split:

Radio communications will be spilt between the left and right ears.

### Surround:

The radio communications will be perceived as it is coming from different directions (10 o'clock or 2 o'clock) depending on which channel the radio is transmitted from.

## Human-Machine Interface (HMI)

The SCU is designed to be integrated into the operator's mission set of equipment

### Physical Characteristics

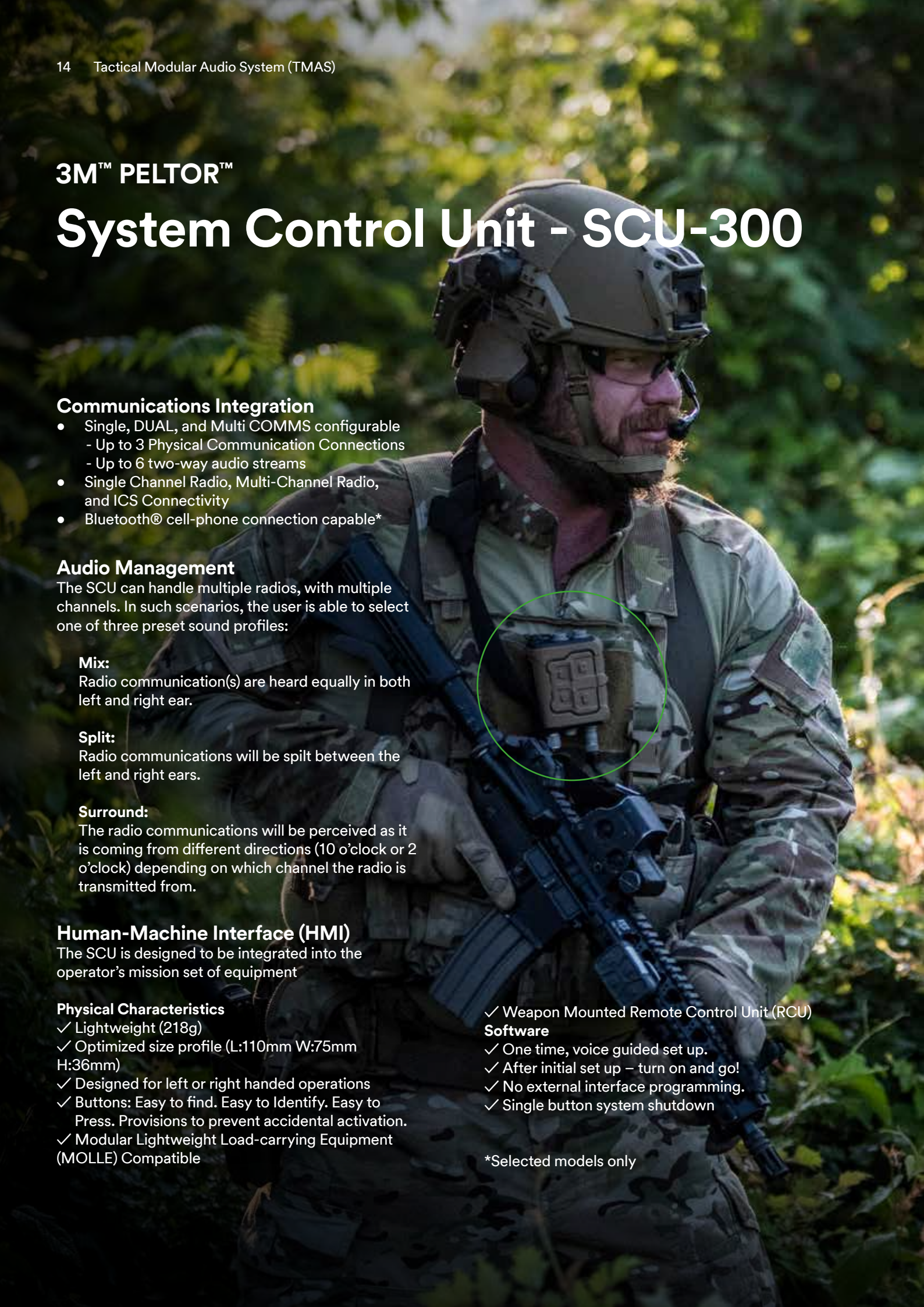
- ✓ Lightweight (218g)
- ✓ Optimized size profile (L:110mm W:75mm H:36mm)
- ✓ Designed for left or right handed operations
- ✓ Buttons: Easy to find. Easy to Identify. Easy to Press. Provisions to prevent accidental activation.
- ✓ Modular Lightweight Load-carrying Equipment (MOLLE) Compatible

- ✓ Weapon Mounted Remote Control Unit (RCU)

### Software

- ✓ One time, voice guided set up.
- ✓ After initial set up – turn on and go!
- ✓ No external interface programming.
- ✓ Single button system shutdown

\*Selected models only





# 3M™ PELTOR™ System Control Unit, SCU-300

## Wired or Wireless Headset Connection

In addition to an optional wired connection, TMAS lets you experience a secure, reliable cable-free connection between the SCU and headsets (both in-ear or over-the-ear). The SCU features proprietary automatic conflict resolution, which allows multiple users cordless communications in close proximity.

### Near Field Magnetic Induction (NFMI)

Near Field Magnetic Induction is a short range, digital, wireless physical layer that communicates by coupling a tight, low power, non-propagating magnetic field between devices. The range is approximately 50 cm (20 in). The steep degradation of NFMI signal strength as a function of distance increases privacy and reduces issues with interference compared to traditional wireless technology. Spectral interference is reduced by a “channel hopping” algorithm incorporated into the TMAS suite.



\*Selected models only



### 3M™ PELTOR™ System Control Unit, SCU-300

Part Number	Description	NSN Number	SAP ID	Colour
SCU-300EU CY	3M PELTOR System Control Unit, Coyote Brown	5895-64-002-0017	7100223392	
SCU-300EU WS GE	3M PELTOR System Control Unit, Grey, Bluetooth®		7100224666	

For more information about SCU-300 cables for connection to radios and intercom, see separate Sellsheet or contact the 3M sales reps in Defence & Public Safety.

3M™ PELTOR™

# Wireless Remote Control Unit - RCU-300



## Keep your hand on your weapon

The RCU is a wireless remote switch that allows an operator to push transmission without having to remove their hand from the weapon system.



## 3M™ PELTOR™ Remote Control Unit, RCU-300

# Wireless Remote Switch

The SCU can be remotely operated via the RCU. Besides using the RCU as a PTT, it can also be used to adjust the volume level of the environmental listening or radio.

Designed to be mounted on a picatinny rail, it can also be placed elsewhere (i.e. steering wheel, second body location).



- 4 Buttons
  - PTT I
  - PTT II
  - + Volume
  - - Volume
- 1600 Hour Battery life
- Up to 2 RCUs can be paired to SCU simultaneously
- Small (L: 61mm W: 41mm H: 24mm)
- Lightweight (51g)
- Can be used with a gloved hand.
- Buttons: Easy to find. Easy to Identify. Easy to Press.





3M™ PELTOR™

# ComTac™ VII Headset

## Auditory Situational Awareness (ASA) like never before.

The 7th generation ComTac changes everything you thought capable with tactical hearing protection.

ComTac VII is designed to improve on every critical area that helps increase auditory operational effectiveness, while providing new capabilities to address the challenges of communicating in dynamic noise environments.

- New ergonomic design to integrate with warfighter weapon and protective systems and increases comfort for long term wear
- Designed to improve sound localization, and speech intelligibility
- Natural Interaction Behavior (NIB): short-range, headset-to-headset communication without the use of an external communications device
- Mission Audio Profiles (MAP): advanced ambient listening modes that allow access to a variety of gain settings, but with frequency shaping, to enhance ASA
- Wireless Option. Go cord free, with 3M's NFMI enabled wireless –realize the freedom of unrestricted head movement, reduced cable management, and snag-free operations





# 3M™ PELTOR™ ComTac™ VII Headset

### New Headband Design

A complete redesign helps improve comfort when worn under a ballistic helmet.

### Transition Made Easier

Simplified cable removal and resetting with redesigned arm guides that snap on/off (no tools required) for easy transition between Accessory Rail Connectors (ARC) and headband.

Designed for use with 3M PELTOR Tactical Earplug TEP-300 for high noise environments

Earplug Mode for dual hearing protection and to maintain clear communications by boosting headset volume.

### Speech Microphone

Redesigned and embedded with patented 3M closed cell foam, delivers improved noise cancelling transmission in high noise and wind while also improving dust and water ingress protection (IP68, 6m / 30 min).

### New Earcup

Updated, modern style that achieves the highest noise attenuation in the ComTac range, and retains a slim profile to help achieve an unobstructed cheek-to-stock weld.

### New Microphone Attachment

Designed to help accommodate both left handed and right handed shooters without the need to relocate the microphone to opposite side of the headset.

### New Environmental Microphone Design

The new ear cup profile allows more space for an upgraded environmental microphone and a more robust windscreen, resulting in improved auditory situational awareness and reduced wind noise.

### Optional Wired Cable Connection

A port for an optional wired connection to the SCU as primary or back-up connection.

### New Battery Compartment

Redesigned, watertight battery compartment that does not require a tool to change batteries.



MT14H41A-300EU (Headband with foam cushion)

	f (Hz)											📏
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	12.6	18.1	29.1	30.5	31.9	43.7	39.4	34	27.4	19.7	29.8	326 g
SD (dB)	2.3	1.5	3.3	2.6	2.2	2.5	2.7	1.3	1.1	1.6	1.0	
APV = MV - SD (dB)	10.3	16.6	25.8	27.9	29.7	41.2	36.7	33	26	18	29	

Size: S, M, L

MT14H41A-300EU with HY80 (Headband with gel cushion)

	f (Hz)											📏
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	12.1	17.8	29.2	34.9	33.9	43.2	39.3	36.3	28.1	19.3	30.4	361 g
SD (dB)	2.2	1.4	2.9	2.2	2.2	3.2	3.3	1.2	1.3	1.8	1.2	
APV = MV - SD (dB)	9.9	16.4	26.3	32.7	31.7	40.0	36.0	35	27	18	29	

Size: S, M, L

MT14H41A-300EU with 3M™ E-A-R™ Classic Earplugs (Dual Protection Mode)

	f (Hz)											📏
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	34.4	44.4	53.2	45.8	40.0	48.7	43.8	41.4	42.8	41.1	43.2	326 g
SD (dB)	4.7	4.3	6.4	5.1	4.9	4.6	4.0	4.1	3.5	3.7	3.4	
APV = MV - SD (dB)	29.7	40.1	46.8	40.7	35.1	44.1	39.8	37	39	37	40	

Size: S, M, L

## Models - 3M™ PELTOR™ ComTac™ VII



Part Number	Description	SAP ID/NSN Number	Colour
MT14H41A-300EU CY	3M PELTOR ComTac VII, Coyote Brown	7100222871 / 5965-64-002-0028	
MT14H41A-300EU GE	3M PELTOR ComTac VII, Grey	7100222909	
MT14H41A-300EU GN	3M PELTOR ComTac VII, OD Green	7100222859	



3M™ PELTOR™

# Tactical EarPlug, TEP-300

## Compact Hearing Protection

3M™ PELTOR™ Tactical Earplugs, features environmental listening function – a capability designed to help provide auditory situational awareness, while still helping provide protection from hazardous noise. It comes with multiple sizes and types of replaceable eartips, designed to help provide hearing protection. The small size makes 3M™ PELTOR™ Tactical Earplugs compatible with most headborne Personal Protective Equipment (PPE) such as helmets, eye wear, and respirators.

## In Ear Speech Microphone\*

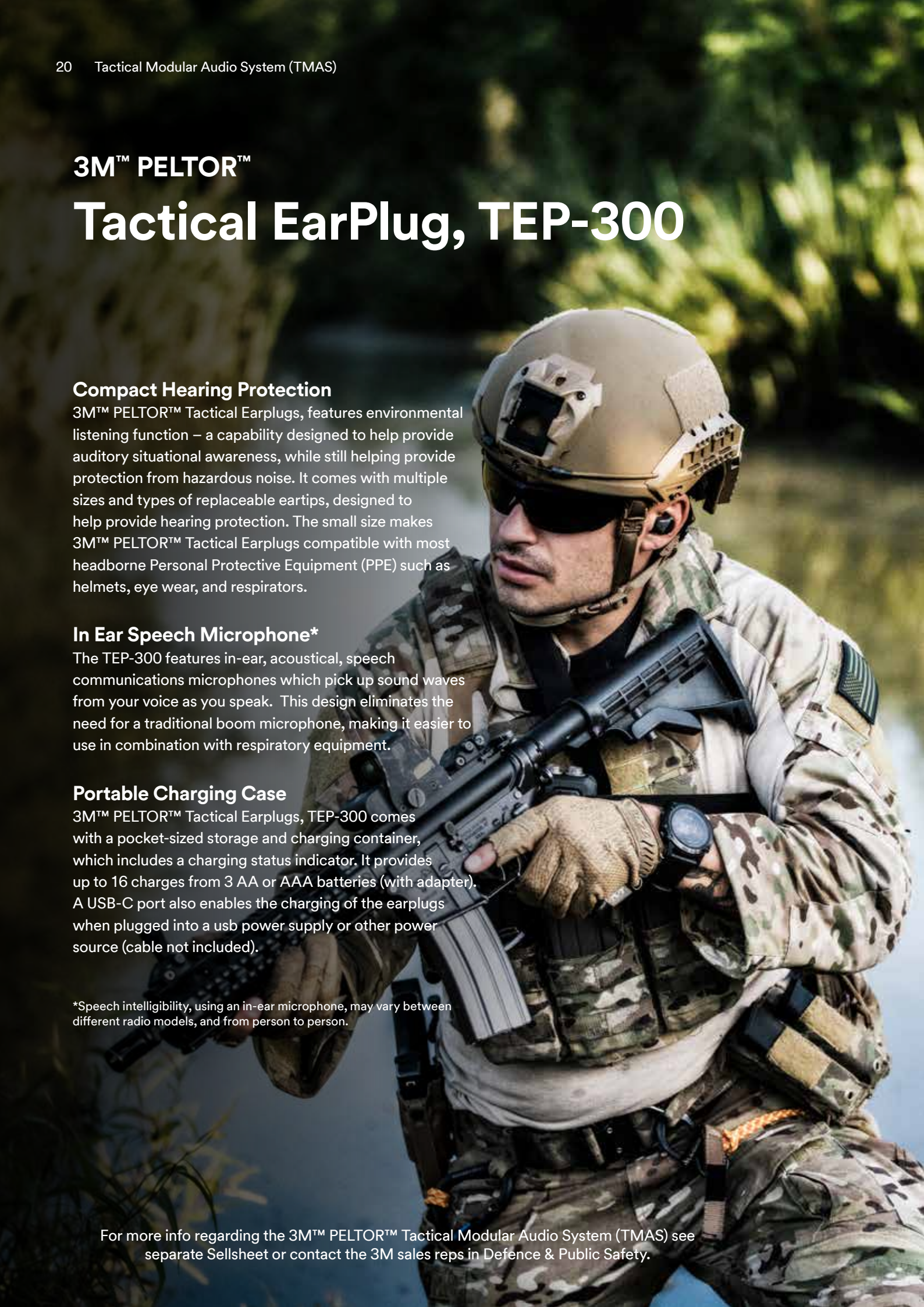
The TEP-300 features in-ear, acoustical, speech communications microphones which pick up sound waves from your voice as you speak. This design eliminates the need for a traditional boom microphone, making it easier to use in combination with respiratory equipment.

## Portable Charging Case

3M™ PELTOR™ Tactical Earplugs, TEP-300 comes with a pocket-sized storage and charging container, which includes a charging status indicator. It provides up to 16 charges from 3 AA or AAA batteries (with adapter). A USB-C port also enables the charging of the earplugs when plugged into a usb power supply or other power source (cable not included).

\*Speech intelligibility, using an in-ear microphone, may vary between different radio models, and from person to person.

For more info regarding the 3M™ PELTOR™ Tactical Modular Audio System (TMAS) see separate Sellsheet or contact the 3M sales reps in Defence & Public Safety.





# 3M™ PELTOR™ Tactical EarPlug, TEP-300

## Compact Hearing Protection

### Operation

Intuitive one-button operation turns unit on, off, and selects volume settings .

### Rechargeable

Charging contacts recharge the unit while in the case. Internal earpiece Li-ion battery provides up to 10 hours of continuous operation when fully charged.

### Hearing Protection

Replaceable communications eartip helps provide hearing protection in noisy environments. Multiple sizes and types designed to fit most ear canals.



**Environmental Microphone Port**  
Assists with maintaining auditory awareness while helping minimize wind noise. Additional windscreen accessory available.

**IP68 Water and Dust Resistance Protection**  
Innovative design helps protect earpiece against water and dust ingress.

**Near Field Magnetic Induction (NFMI)**  
Wireless connection to 3M™ PELTOR™ System Control Units, SCU-300.

**In-Ear Speech Microphone**  
The TEP-300 features in-ear speech microphones that pick up sound from inside the ear canal as you speak.

# 3M™ PELTOR™ Tactical EarPlug, TEP-300

## Portable Charging Case

**Portable Charging Compartment**  
Up to 16 recharging cycles with AA batteries.

**Sealing Ring**  
Rubber sealing ring helps protect earplugs and charging case in wet and dirty environments. (IP68 rating)



**Charging Status LED**  
Led lights indicate charging status.

**Micro USB-C Charging Port**  
USB port enables the charging of the earplugs when plugged into a computer or USB power supply (cable not included).

**Earplug Clips**  
Steel clips help secure earplugs in case.

Attenuation values and accessories for TEP-300 see [page 37](#).

### Models - 3M™ PELTOR™ TEP-300



Part Number	Description	SAP ID/NSN Number	Colour
TEP-300 EU CY	3M PELTOR Tactical Earplug, TEP-300 CY, Coyote Brown	7100227628/ 5965-64-002-0027	
TEP-300 EU GE	3M PELTOR Tactical Earplug, TEP-300 GE, Grey	7100227651	
TEP-300 EU TN	3M PELTOR Tactical Earplug, TEP-300 TN, Tan	7100227629	

# ComTac™ Headset Solutions

Over 25 years of changing the game

---

Being able to communicate effectively whilst at the same time receiving protection from harmful noise levels is a vital necessity in the military, both for exercises and battle situations. Noise levels are often so high that they can cause immediate, permanent damage to your hearing if proper hearing protection is not worn.

3M™ PELTOR™ ComTac™ 1st generation headset was a result of a project to help prevent hearing damage and at the same time enhance the efficiency of the soldier's mission during training as well as combat.

The 1st generation 3M™ PELTOR™ ComTac™ headset was introduced over 25 years ago and so far over 1,000,000 headsets have been delivered and used in more than 40 countries worldwide.









# Headset Features

## 3M™ PELTOR™ ComTac™ VI NIB Headset

### NIB - Natural Interaction Behavior Headset



### Slim shell design

To be worn comfortably under a helmet and used with different kinds of weapons without interference.

### MAP - Mission Audio Profiles

The digital level-dependent function for ambient listening is set with five incremental steps including an advanced ambient mode.

### 2-AAA batteries (one for each cup)

Lasting for approx. 30-50 hours of use. The headset will turn off after 2 hours of non-use to save batteries. A message will be heard when the battery is low.

### Wireless input via Magnetic induction

The Headset is fitted with a small antenna to allow one-way communication to be received from a neckloop accessory.

**Earplug Mode** for dual hearing protection and to maintain clear communications by boosting headset volume

### Hearing Protection

Noise-attenuating ear cups help provide hearing protection in environments with potentially hazardous noise.

**Replaceable cushions and foam liners (hygiene kit). Approved with Gel rings (HY80-EU).**

**Compatible with legacy PELTOR adapter**

### Noise-canceling microphone

Dynamic watherproof speech microphone. Tested according to IP68 (6m/30min)



## New advanced level-dependent function for ambient listening

The level-dependent microphones allow the users to listen to the ambient sounds and communicate in lower noise environments while still being protected against temporary or intermittent noise. The ComTac™ VI introduces the new 3M™ PELTOR™ **MAP - Mission Audio Profiles**, advanced settings for ambient listening, allowing you to adapt and optimize the level-dependent function for different scenarios.

## Communications

External radio RX/TX communications are independent of headset battery power in 3M PELTOR ComTac VI Headsets.

In the event of battery depletion or other power failure, external communications will continue to function. The ComTac VI Headset does not require power to receive and transmit external radio communications.





# Headset Features

## 3M™ PELTOR™ ComTac™ VIII Headset

### Updated Earcup

Designed to help provide the maximum amount of attenuation while limiting the thickness of the cup.

A deeper cup with more space for ears, to help improve long term comfort, especially when worn in combination with ear plugs.

### Updated Environmental Mic Design

The profile of the ear cup widens and deepens the location of the upgraded environmental microphones with a robust wind screen

### Mission Audio Profiles (MAP)

The digital level-dependent function for ambient listening is set with five incremental steps including an advanced ambient mode.

### Ghost Voice Language Options

English, German, Spanish, French

### Noise-canceling Speech Microphone

Embedded with a 3M patented solution utilizing closed cell foam, delivers improved noise cancelling transmission in noise and wind while also improving dust and water ingress protection (IP68, 3m / 30 min).

### Low Profile Headband

A complete redesign of the headband, with even pressure distribution and a slim low profile, helps improve comfort and eliminate "hot spots", especially when worn under a ballistic helmet.

### Transition made simpler

Simplified cable removal and redesigned arm guides that snap on/off for easy transition between Accessory Rail Connectors (ARC) and headband.



**Earplug Mode** for dual hearing protection and to maintain clear communications by boosting headset volume

### Soundscaping

Automatic soundscaping to help promote speech intelligibility in noise.

### Updated Microphone Attachment

Designed to help accommodate both left-handed and right-handed shooters without the need to relocate the microphone to opposite side of the headset. The telescope boom can adjust its length, vertical and horizontal orientation.

The product has been tested in accordance with the impulse test requirements of ANSI S12.42-2010

## Environmental Listening Feature

The environmental listening feature, also known as "talk-through", is a means of allowing safe audio sounds to bypass the individual hearing protection electronically while still helping protect against harmful noises. A microphone receives the sounds outside of the headset and transmits them to a speaker inside of the headset. The level-dependent digital audio circuit senses noise levels above the desired threshold and compresses them to a safe decibel level or amplifies weak sounds to an audible level.

## Mission Audio Profiles (MAP)

3M™ PELTOR™ ComTac™ VIII Headset offers a way to adjust the auditory settings of your headset for your mission. Traditionally, a headset has a set frequency response, and the operator can only increase or decrease the volume. The MAP function provides new advanced ambient/environmental listening modes that allow access to a variety of gain settings, but with frequency shaping, to enhance auditory performance in five conditions. The MAP Profiles have been designed with a variety of combat and combat support operations in mind.



## Comparison Chart of 3M™ PELTOR™ ComTac™ Tactical Headsets

	3M™ PELTOR™ ComTac™ VI Hearing Defender	3M™ PELTOR™ ComTac™ VI Headset
Hearing protection	✓	✓
Earplug mode	✓	✓
Mission Audio Profiles (MAP)	✓	✓
Natural Interaction Behavior (NIB) for headset-to-headset intra-team communication	✓	✓
Detachable speech microphone	✓	✓
Near Field Magnetic Induction (NFM) for wireless headset connection	–	–
Battery life	LDF and NIB: Approx 30 hours* LDF: Approx 50 hours*	LDF and NIB: Approx 30 hours* LDF: Approx 50 hours*

*Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G  
\* Battery & temperature dependent*

*Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G  
\* Battery & temperature dependent*

LDF = Level Dependent Function, including Mission Audio Profiles.





3M™ PELTOR™ ComTac™ VII Headset	3M™ PELTOR™ ComTac™ VIII Hearing Defender	3M™ PELTOR™ ComTac™ VIII Headset
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	-	
✓	-	✓
✓	-	-
LDF and NIB: Approx 30 hours* LDF: Approx 50 hours*	Approx 50 hours*	Approx 50 hours*

*Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G  
\* Battery & temperature dependent*

*Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G  
\* Battery & temperature dependent*

*Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G  
\* Battery & temperature dependent*



# 3M™ PELTOR™ ComTac™ VI NIB Headsets: Selection and Attenuation

## Selection matrix



Art.No / NSN number	Product Description	Colour	Band Style	Mic type	Connector				
					No Connector	PELTOR J11	NATO J11	Stereo J11	Stereo 5-pole
7100168351 5965-64-000-7190	MT20H682FB-02N ComTac™ VI NIB Hearing Defender	●	●	●	●				
7100168384 5965-22-633-3574	MT20H682FB-38N ComTac™ VI NIB Headset	●	●	●		●			
7100168800 5965-64-000-7187	MT20H682FB-86N ComTac™ VI NIB Headset	●	●	●			●		
7100168383 5965-64-000-7193	MT20H682FB-19BN ComTac™ VI NIB Headset	●	●	●			●		
7100168803 5965-64-000-7191	MT20H682FB-88N ComTac™ VI NIB Headset, Stereo	●	●	●				●	
7100242404 N/A	MT20H682FB-92EUN ComTac™ VI NIB Headset, 5-pole connector	●	●	●					●
7100168352 5965-64-000-7192	MT20H682FB-02N SV ComTac™ VI NIB Hearing Defender	●	●	●	●				
7100168802 5965-64-000-4229	MT20H682FB-38N SV ComTac™ VI NIB Headset	●	●	●		●			
7100168801 5965-64-000-7189	MT20H682FB-86N SV ComTac™ VI NIB Headset	●	●	●			●		

## Attenuation Tables - ComTac VI NIB \*



### MT20H682FB-\*N\* (Headband with foam cushion)

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	11.6	17.6	30.5	29.7	29.4	32.8	38.3	31.2	26.7	18.9	28.5	358 g
SD (dB)	2.3	2.1	2.9	2.3	3.2	2.1	4.8	2.8	1.5	1.7	1.5	
APV = MV - SD (dB)	9.3	15.5	27.6	27.4	26.2	30.7	33.5	28	25	17	27	

### MT20H682FB-\*N\* with HY80 (Headband with gel cushion)

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	15.1	18.2	26.2	32.2	30.4	29.3	36.7	30.4	27.1	20.8	28.6	403 g
SD (dB)	3.4	3.0	2.2	2.5	3.7	3.7	4.0	3.0	2.0	2.9	1.9	
APV = MV - SD (dB)	11.7	15.2	24.0	29.7	26.7	25.6	32.7	27	25	18	27	

### MT20H682FB-\*N\* with 3M™ E-A-R™ Classic™ Earplugs (Dual Protection Mode)

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	31.8	39.5	52.5	43.8	40.8	50.8	46.4	42.4	41.8	38.3	42.9	358 g
SD (dB)	8.6	9.3	8.2	5.1	5.0	3.1	3.9	3.7	4.0	6.5	3.6	
APV = MV - SD (dB)	23.2	30.2	44.3	38.8	35.8	47.7	42.5	39	38	32	39	

\* 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.




## 3M™ PELTOR™ ComTac™ VIII Headsets: Selection and Attenuation

### Selection matrix



Art.No/ NSN Number	Product Description	Colour	Band Style	Microphone Type			Connector				
				F-Band	Telescope	No Mic	PELTOR 4-pin	NATO 4-pin	5-pin	10-pin	LEMO
7100321396	MT14H418A-02 GE ComTac™ VIII Hearing Defender	●	●			●					
7100322593 4240-64-002-0055	MT14H418A-02 GN ComTac™ VIII Hearing Defender	●	●			●					
7100322482	MT14H418A-35 GE ComTac™ VIII Headset 5-pin	●	●	●						●	
7100322310	MT14H418A-35 GN ComTac™ VIII Headset 5-pin	●	●	●						●	
7100320871	MT14H418A-86 GE ComTac™ VIII Headset 4-pin (NATO)	●	●	●					●		
7100320872 4240-64-002-0054	MT14H418A-86 GN ComTac™ VIII Headset 4-pin (NATO)	●	●	●					●		
7100321460 5965-64-002-0848	MT14H418A-38 GE ComTac™ VIII Headset 4-pin (PELTOR)	●	●	●					●		
7100321461	MT14H418A-38 GN ComTac™ VIII Headset 4-pin (PELTOR)	●	●	●					●		
7100321699	MT14H418A-90 ComTac™ VIII Headset LEMO	●	●	●							●
7100322251	MT14H418A-108 GN ComTac™ VIII Headset 10-pin	●	●	●							●
7100322003	MT14H418A-108 GE ComTac™ VIII Headset 10-pin	●	●	●							●

### Attenuation Tables - ComTac VIII \*



#### MT14H418A\*\* (Headband with foam cushion)

	f (Hz)												
	125	250	500	1000	2000	4000	8000	H	M	L	SNR		
MV (dB)	12.6	18.1	29.1	30.5	31.9	43.7	39.4	34	27.4	19.7	29.8	339 g	
SD (dB)	2.3	1.5	3.3	2.6	2.2	2.5	2.7	1.3	1.1	1.6	1.0		
APV = MV - SD (dB)	10.3	16.6	25.8	27.9	29.7	41.2	36.7	33	26	18	29		

#### MT14H418A\*\* with HY80 (Headband with gel cushion)

	f (Hz)												
	125	250	500	1000	2000	4000	8000	H	M	L	SNR		
MV (dB)	12.1	17.8	29.2	34.9	33.9	43.2	39.3	36.3	28.1	19.3	30.4	374 g	
SD (dB)	2.2	1.4	2.9	2.2	2.2	3.2	3.3	1.2	1.3	1.8	1.2		
APV = MV - SD (dB)	9.9	16.4	26.3	32.7	31.7	40.0	36.0	35	27	18	29		

#### MT14H418A\*\* with 3M™ E-A-R™ Classic™ Earplugs (Dual Protection Mode)

	f (Hz)												
	125	250	500	1000	2000	4000	8000	H	M	L	SNR		
MV (dB)	34.4	44.4	53.2	48.8	40.0	48.7	43.8	41.4	42.8	41.1	43.2	339 g	
SD (dB)	4.7	4.3	6.4	5.1	4.9	4.6	4.0	4.1	3.5	3.7	3.4		
APV = MV - SD (dB)	29.7	40.1	46.8	40.7	35.1	44.1	39.8	37	39	37	40		

\* 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

# Spare Parts and Accessories

The 3M™ PELTOR™ Brand offers a range of accessories to help you maintain and enhance your product during the product's life cycle. This will help promote consistent performance throughout the product's lifetime.







**MT33**  
Flexi boom speech microphone



**MT73**  
Standard microphone



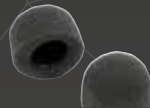
**M171/2**  
Wind shield for MT73 / MT33  
microphone heads



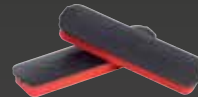
**M42/1**  
Wind Shield for dynamic  
microphone head



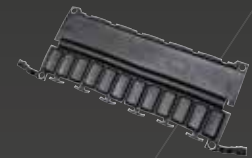
**HYM1000**  
Hygiene tape for microphone



**M60/2**  
Environmental microphone  
foam cover



**1079 SV/SP**  
Battery cover for ComTac  
Headsets



**F09/SP**  
Head pad for F-band



**P3ADG-F SV/2**  
Helmet accessory rail  
connectors for ComTac VI  
Headset



**P3ADG47-F SV/2**  
Helmet accessory rail  
connectors for ComTac VII  
and VIII Headsets



**FP9007**  
Headset bag



**Hygiene Kits**  
(See page 47)

## Spare Parts and Accessories

Description	SAP ID / NSN Number	Part Number
Flexi boom speech microphone, 130mm cable, Incl. wind shield	7100112093 / 5965-25-162-1083	MT33/1
Flexi boom speech microphone, 180mm cable, Incl. wind shield	7100112095 / 5965-25-162-1085	MT33-05/1
Standard microphone, 80mm cable	7100112094 / 5965-25-162-1084	MT73/1
Environmental microphone foam cover, ComTac, 2pc	7000039650 / 5965-22-125-7787	M60/2
Wind shield for MT73/1, MT33/1 microphone, 2pcs	7100112112 / 5965-12-406-1586	M171/2
Wind shield MAXI for dynamic microphone, black	7000039687 / 5965-22-614-2936	M42/1
Hygiene tape for microphone, black, 5m	7100064281 / 5965-22-125-0402	HYM1000
Hygiene cleaning pads, pack of 100	7100064410 / 5965-12-373-1048	HY-100A
Battery cover for ComTac VI NIB, XPI	7100088235 / 6160-22-626-1720	1079 SV/SP
Headset rail attachments for Military helmets	7000108832 / 5965-25-161-0859	P3ADG-F SV/2
Head pad for F-band	7100088308 / 5965-25-161-6051	F09/SP
Headset Bag	7100064607 / 5965-12-389-5457	FP9007

## Spare Parts and Accessories for ComTac VII and VIII

Description	SAP ID	Part Number
ComTac VII, VIII Wind shield kit for Surround mic, 1 pair	7100232688	M194/2
ComTac VII, VIII Battery cover	7100232689 / 6160-64-002-0026	1086 SV/1
ComTac VII, VIII Headband	7100227486	AGM/1
ComTac VII, VIII Microphone guide	7100227492	A47/1
ComTac VII, VIII Dynamic boom microphone	7100230581	MT71/1
ComTac VII, VIII ARC Rail attachment, 1 pair	7100227493 / 8470-64-002-0026	P3ADG47-F SV/2

# Tactical Earplug Solutions

---

3M™ PELTOR™ level-dependent technology helps provide hearing protection in noise and enhanced communication in quiet. Protecting hearing and improving situational awareness can help increase personal safety and can help improve productivity. Ear pieces also include a small antenna to allow audio signals to be received wirelessly from a neckloop accessory.





# 3M™ PELTOR™ Tactical Earplug, TEP-200 EU

## Electronic Level-Dependent Hearing Protector



**Design**

Corner radius designed to help soften contact zone and increase comfort

**Button**

Intuitive one-button operation turns unit on, off, and selects volume settings

**Charging case**

Pocket-sized storage and charging container

Charger operates from AA battery or USB power

<b>Hearing protection</b>	✓
<b>Level-dependent function for ambient listening</b>	✓
<b>Rugged design to withstand harsh environments</b>	✓
<b>Tested according to military standards*</b>	✓
<b>Waterproof (IP67)</b>	✓
<b>Recharge time</b>	90 min
<b>Battery life</b>	~ 16h**

\* Tested according to the applicable parts of MIL-STD 810G

\*\* Battery & temperature dependent

**Communication**

Ear pieces also include a small antenna to allow audio signals (listen-only) to be received wirelessly from a neckloop accessory.

### Attenuation tables - TEP-200 EU\*

3M™ UltraFit™ Eartips (Small, medium, large)

	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	34.5	31.5	36.2	33.4	34.8	34.9	38.8	34.5	33.6	33.0	35.2
SD (dB)	6.0	5.4	5.6	4.3	3.8	5.0	4.0	3.7	4.0	4.6	3.8
APV = MV - SD (dB)	28.5	26.1	30.6	29.1	31.0	29.9	34.8	31	30	28	31

3M™ Torque™ Eartips

	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	37.8	36.0	40.5	41.2	41.3	39.6	46.1	40.3	39.9	38.2	41.0
SD (dB)	4.3	5.5	4.2	4.7	3.2	4.3	3.6	3.0	3.4	4.1	3.1
APV = MV - SD (dB)	33.5	30.5	36.3	36.5	38.0	35.3	42.5	37	37	34	38

3M™ PELTOR™ CCC-GRM-25 Communication Eartips

	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	35.5	32.5	37.1	38.0	37.6	39.5	45.5	38.0	37.1	35.2	38.7
SD (dB)	4.5	4.0	4.4	3.7	2.9	4.6	4.2	2.6	3.1	3.6	2.8
APV = MV - SD (dB)	30.9	28.4	32.7	34.3	34.6	34.9	41.3	35	34	32	36

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.



### Available eartips



### Accessories




Description	Art.No / NSN Number	Reference ID
3M PELTOR Tactical Ear Protection, TEP-200 EU, Kit	7100141803 / N/A	TEP-200 EU

### Accessories

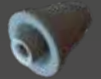
Description	Art.No / NSN Number	Reference ID
3M UltraFit Replacement eartips, Small (25 pair/case)	7100066371 / N/A	370-TEPS-25
3M UltraFit Replacement eartips, Medium (25 pair/case)	7100066387 / N/A	370-TEPM-25
3M UltraFit Replacement eartips, Large (25 pair/case)	7100066388 / N/A	370-TEPL-25
3M Torque COMM eartips (50 pair/case)	7000108492 / N/A	PELTIP5-01
3M PELTOR Triple-C Communication Eartips (25 pair/case)	7100103087 / N/A	CCC-GRM-25
3M PELTOR TEP-CORD	7100074090 / N/A	TEP-CORD
3M PELTOR TEP Earplug	7100066369 / N/A	TEP-200E
3M PELTOR TEP Case	7100066370 / N/A	TEP-100C
3M PELTOR Foam Windscreen for TEP-200 EU	7100113748 / N/A	TEP-WINDSCREEN

### Attenuation tables - TEP-300 EU\*

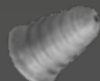
3M™ UltraFit™ Eartips (Small, medium, large)

	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	32.8	30.2	31.6	31.2	33	34.4	37.9	33.1	31.4	30.8	33.4
SD (dB)	6.2	4.5	5.4	4.4	4	4.8	3.9	3.5	3.7	4	3.5
APV = MV - SD (dB)	26.6	25.7	26.2	26.8	29	29.6	34	30	28	27	30

3M™ PELTOR™ CCC-GRM-25 Communication Eartips

	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	35.1	32.5	37.5	37.9	37.1	40.8	44.6	38	36.9	34.9	38.5
SD (dB)	5.5	4.9	5.1	4.8	4.3	4.6	4.7	3.4	3.6	4	3.3
APV = MV - SD (dB)	29.6	27.6	32.4	33.1	32.8	36.2	39.9	35	33	31	35

3M™ Torque™ Eartips

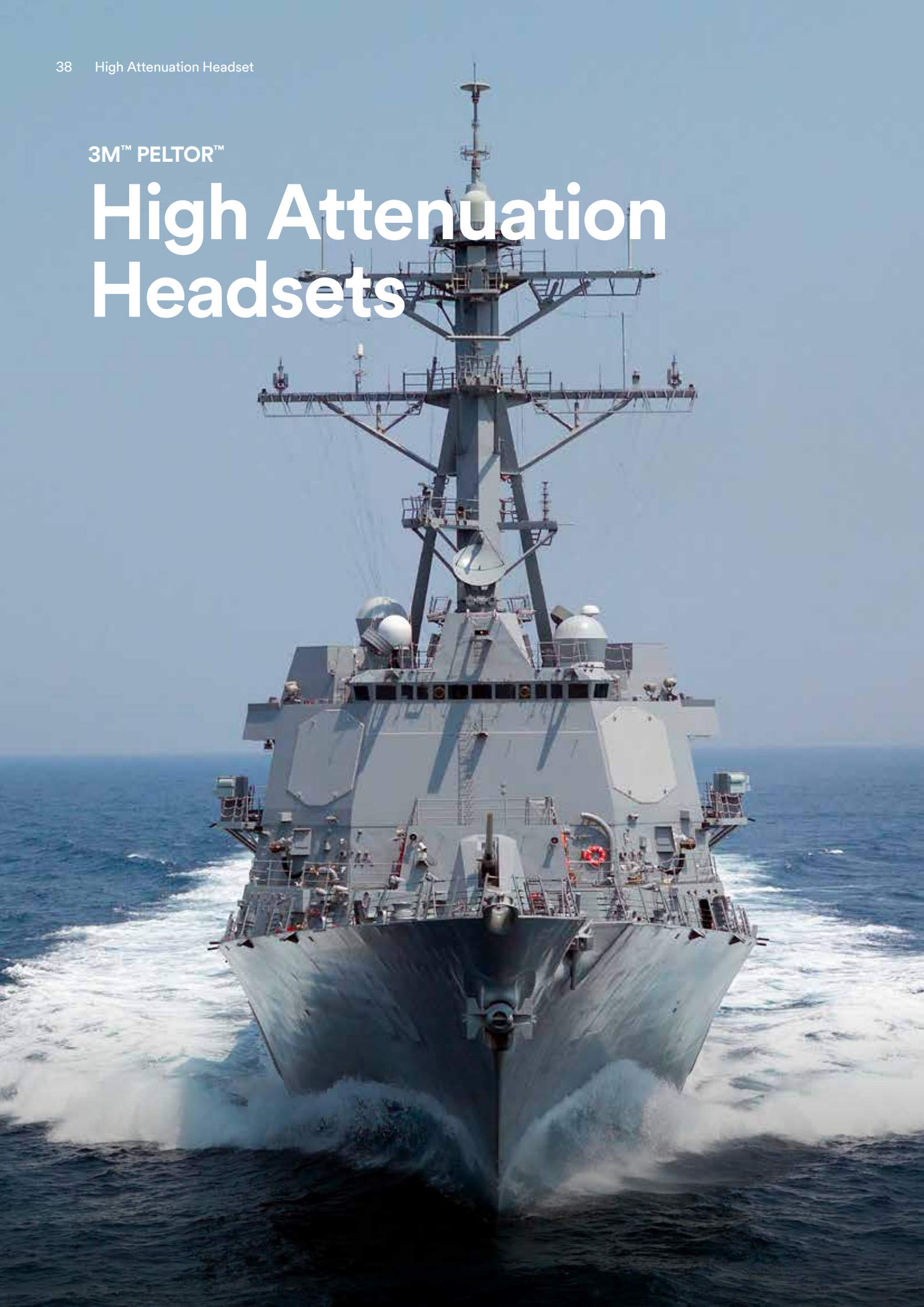
	f (Hz)										
	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	38.1	35.5	40.7	40.9	37.5	40.3	44.9	38.4	38.5	37.3	39.7
SD (dB)	5.4	5.4	5.7	5.8	3.2	3.3	4.2	2.5	3.1	4.1	2.6
APV = MV - SD (dB)	32.7	30.1	35	35.1	34.3	37	40.7	36	35	33	37

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

According to EN 352-1:2020

3M™ PELTOR™

# High Attenuation Headsets





## 3M™ PELTOR™ CH-5 High Attenuation Headset

# Communication headset with high attenuation

### Stainless Steel Wire Headband

Wire headband offers comfortable and consistent pressure

### Connection

Connection to 3M™ PELTOR™ PTT Adapters

### Hearing Protection

Noise-attenuating ear cups help provide hearing protection in environments with potentially hazardous noise

Hearing protection	✓
Dynamic waterproof boom microphone	✓
Tested according to CE standards	✓
Stainless Steel Wire Headband	✓

### Noise-canceling microphone

Dynamic waterproof speech microphone. Tested according to IP68 (6m/30min)

### Cable

Reinforced with fiber thread

Description	Art.No / NSN Number	Reference ID
3M PELTOR CH-5 Headset, PELTOR wired J11 connection	7100099845 / N/A	MT73H450A-38
3M PELTOR CH-5 Headset, NATO wired J11 connection	7100099883 / N/A	MT73H450A-86

## Attenuation tables \*

MT73H450A-38, MT73H450A-86

	f (Hz)											Weight
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	23	28.8	39.7	44	37.7	42.7	41.3	39.7	37.7	30.2	38.7	498 g
SD (dB)	2.9	1.6	2.5	3.3	2.1	1.7	4.2	1.9	1.1	1.8	1.2	
APV = MV - SD (dB)	20.1	27.2	37.2	40.7	35.6	41	37.1	38	37	28	38	

According to EN 352-1:2020

Size: S, M, L

The product has been tested in accordance with the impulse test requirements of ANSI S12.42

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

## 3M™ PELTOR™ WS™ LiteCom Plus Headset

- Pre-programmed analog two-way radio communication
- Bluetooth® multipoint functionality
- Waterproof microphone (IP68 rating)
- Level-dependent function for situational awareness
- Available as 16 channels in the PMR 446 MHz band or 69 channels on the LPD 433 MHz band



## 3M™ PELTOR™ WS™ ProTac™ XPI Headset

- Bluetooth 4.2 including MultiPoint
- Level-dependent function for situational awareness
- Support for Bluetooth A2DP, streaming (selectable in Set-up mode)
- Auto power off: The headset will turn off after 4 hours of non-use to save battery
- Improved MMI menu set-up for easier handling in daily operations



### 3M™ PELTOR™ WS™ LiteCom Plus Headset

Description	Art.No / NSN Number	Reference ID
3M PELTOR WS LiteCom Plus PMR446 MHz, Analog, EU version, Headband	7100204388 / N/A	MT73H7A4410WS6EU
3M PELTOR WS LiteCom Plus LPD433 MHz, Analog, EU version, Headband	7100204419 / N/A	MT73H7A4310WS6EU

### 3M™ PELTOR™ WS™ ProTac™ XPI Headset

Description	Art.No / NSN number	Reference ID
3M PELTOR WS ProTac XPI headband	7100196045 / N/A	MT15H7AWS6
3M PELTOR WS ProTac XPI FLX2 Headset, headband	7100195906 / N/A	MT15H7AWS6-111

### Attenuation tables \*

MT73H7A4410WS6EU, MT73H7A4310WS6EU

	f (Hz)											449 g
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	17.1	25.6	34.5	34.5	36.6	39.6	38.3	37.2	32.9	25.4	34.7	
SD (dB)	2.4	1.2	3.0	2.8	2.1	3.0	3.1	1.4	1.2	1.7	1.1	
APV = MV - SD (dB)	14.7	24.4	31.5	31.7	34.5	36.6	35.2	36	32	24	34	

According to EN 352-1:2020

MT15H7AWS6 / MT15H7AWS6-111

	f (Hz)											373 g
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	14.4	24.6	35.8	36.0	34.3	35.0	34.8	34.6	31.9	23.0	32.8	
SD (dB)	3.1	1.8	3.2	2.7	2.3	3.0	3.4	1.3	1.6	2.4	1.4	
APV = MV - SD (dB)	11.3	22.8	32.6	33.3	32.0	32.0	31.4	33	30	21	31	

According to EN 352-1:2020

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.



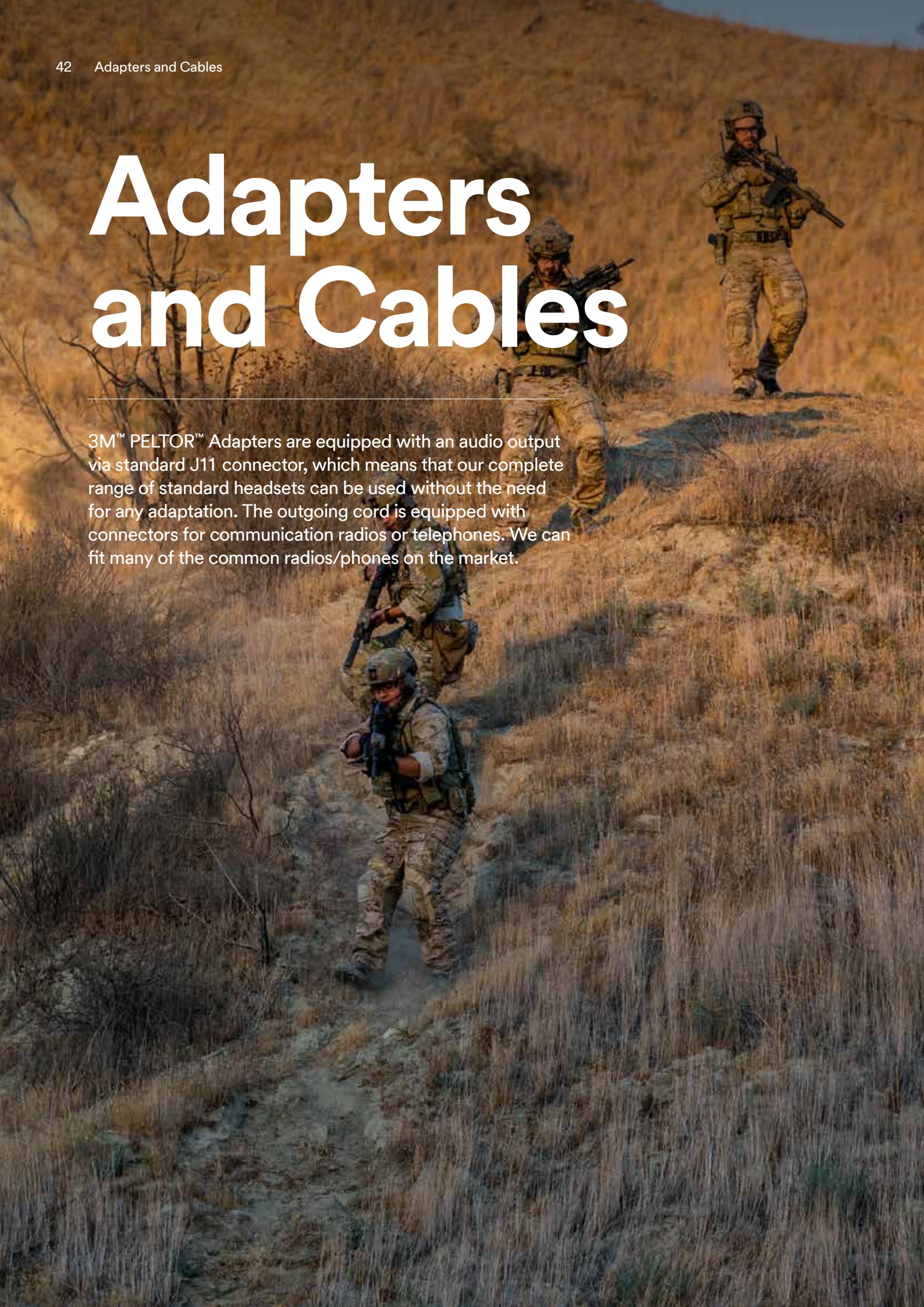




# Adapters and Cables

---

3M™ PELTOR™ Adapters are equipped with an audio output via standard J11 connector, which means that our complete range of standard headsets can be used without the need for any adaptation. The outgoing cord is equipped with connectors for communication radios or telephones. We can fit many of the common radios/phones on the market.





## Adapters and Cables

# Features

### Radio Connections

Able to connect various radios and intercom systems on the market.

### Sturdy design

Can be used with a gloved hand. Designed to reduce accidental activation. Water-resistant.

### 360° turnable clip

Design to accommodate left and right-handed operators. For secure fastening on garments.



# Push-To-Talk Adapters

## 3M™ PELTOR™ FL4000 Series

- Small design to maximize tactical vest real estate
- Comes with mounting clip that can be rotated 360°
- Optional thin MOLLE clip (TKD4003) also available (not included)



Extra clips for FL4000

### 4-pin Single-COMM (NATO)

Part Number	Description	SAP ID	NSN Number
FL4052-02	3M™ PELTOR™ PTT, Thales PR4G	7100324858	
FL4063-02	3M™ PELTOR™ PTT, Motorola Mototrbo	7100324856	
FL40114-02	3M™ PELTOR™ PTT, Motorola MXP600/R7	7100325599	
FL4040-02	3M™ PELTOR™ PTT, Harris Falcon II®, H-250/U	7010048629	5695-25-161-8304
FL4040-09	3M™ PELTOR™ PTT, AN/VIC-3, toggle switch	7100324859	

### 4-pin Single-COMM (PELTOR)

Part Number	Description	SAP ID	NSN Number
FL4063	3M™ PELTOR™ PTT, Motorola Mototrbo™	7100049623	
PPN:17-0061	3M™ PELTOR™ PTT, Sepura	Special Build	

### 5-pin Dual-COMM (-35)

Part Number	Description	SAP ID	NSN Number
FL4040-08	3M™ PELTOR™ PTT, AN/VIC-3, toggle switch	7100322591	

### Replacement Parts and Accessories

Part Number	Description	SAP ID	NSN Number
TKD4003	3M™ PELTOR™ Molle Clip for FL40*		
TKD5012/SP	3M™ PELTOR™ Rotatable Clip for FL40*	7100245102	



## 3M™ PELTOR™ FL5000 Series

- Ambidextrous design allows for easy use by either the right or left hand
- Comes with mounting clip that can be rotated 360°
- Optional shroud (TKD5502/1) protects PTT button from accidental activation (not included)



Shroud for FL5000

FL56-D147

### 4-pin Single-COMM (NATO)

Part Number	Description	SAP ID	NSN Number
FL5040-07	3M™ PELTOR™ PTT, Harris Falcon II®, H-250/U	7000108190	5965-25-160-3745
FL5601-100	3M™ PELTOR™ PTT, Harris Falcon III®, 7800	7000108433	5965-25-160-5200
FL5601-02	3M™ PELTOR™ PTT, RACAL MBITR	7100005674	
FL5611-02	3M™ PELTOR™ PTT, Elbit PNR-1000	7100324857	

### 4-pin Single-COMM (PELTOR)

Part Number	Description	SAP ID	NSN Number
FL5040	3M™ PELTOR™ PTT, RACAL MBITR	7000147276	5965-12-384-5295
FL5025	3M™ PELTOR™ PTT, RA145, RA146, RA180	7000107876	5965-22-609-5198
FL5052	3M™ PELTOR™ PTT, PR4G	7000107882	5965-25-150-9969
PPN:18-0052	3M™ PELTOR™ PTT, Elbit PNR-1000	Special Build	
FL5042	3M™ PELTOR™ PTT, Nokia TETRA THR880	7100009674	5965-25-150-9686
FL5062	3M™ PELTOR™ PTT, Motorola TETRA MTP850	7100011659	5965-22-628-5898
FL5063	3M™ PELTOR™ PTT, Motorola Mototrbo™ DP3000, DP4000	7000039661	5965-22-634-0578
FL50101	3M™ PELTOR™ PTT, Sepura Tetra STP8000	7000108319	5695-22-630-6548
PPN: 16-0003	3M™ PELTOR™ PTT, Motorola TETRA MTH800	Special Build	

### Multi Adapter FL56-D147 and Cables

Part Number	Description	SAP ID	NSN Number
FL56-D147	3M™ PELTOR™ Multi PTT-adapter NATO wired	7100191838	5930-12-407-8403
FL4-D1475270	3M™ PELTOR™ Cable for FL56-D147 to SEM52SL, SEM79/80/90 radio	7100194286	6150-12-407-9220
FL4-D147PRC	3M™ PELTOR™ Cable for FL56-D147 to PRC 117F, 117G, 148 MBITR radio	7100221853	6150-12-409-0900
FL4-D147SO	3M™ PELTOR™ Cable for FL56-D147 to Intercom SOTAS IP	7100243515	6150-12-407-9374
FL4-D147BV	3M™ PELTOR™ Cable for FL56-D147 to BV25 radio	7100284384	
FL4-D147G2	3M™ PELTOR™ Cable for FL56-D147 to EADS G2 radio	7100243515	6150-12-407-9376
FL4-D147TPH	3M™ PELTOR™ Cable for FL56-D147 to TPH700/900 radio	Special Build	
FL4-D147DI	3M™ PELTOR™ Cable for FL56-D147 to Dittel FSG7016 radio	Special Build	
FL4-D147KEN	3M™ PELTOR™ Cable for FL56-D147 to Kenwood 2-Pin radio	Special Build	
FL4-D147PNR	3M™ PELTOR™ Cable for FL56-D147 to Telefunken Racoms PNR1000 radio	7100284385	6150-12-417-4024
FL4-D14752S	3M™ PELTOR™ Cable for FL56-D147 to PRC Radio	7100246151	5995-12-415-2530

### Replacement Parts and Accessories

Part Number	Description	SAP ID	NSN Number
TKD5502/1	3M™ PELTOR™ Shroud for FL50**	7000039651	5930-20-005-9316
TKD5005/SP	3M™ PELTOR™ Rotatable Clip for FL50*, and SCU-300	7100245137	
TKD5011/SP	3M™ PELTOR™ Thin Rotatable Clip for FL5*, and SCU-300	7100245136	

# Hygiene Kits and Gel Sealing Rings

---

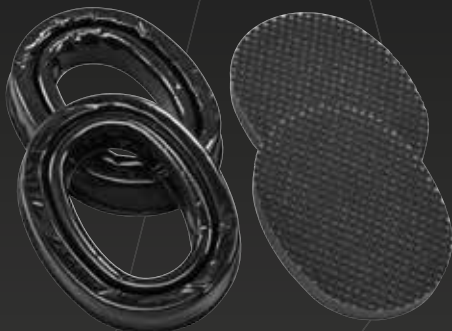
Earmuffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage.

3M™ PELTOR™ Brand recommends to change the hygiene kit at least twice a year.





**Gel Sealing Rings**



**Attenuation data \***

MT14H418A\*\* with HY80 (Headband with gel cushion)

f (Hz)	f (Hz)											SNR
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	12.1	17.8	29.2	34.9	33.9	43.2	39.3	36.3	28.1	19.3	30.4	374 g
SD (dB)	2.2	1.4	2.9	2.2	2.2	3.2	3.3	1.2	1.3	1.8	1.2	
APV = MV - SD (dB)	9.9	16.4	26.3	32.7	31.7	40.0	36.0	35	27	18	29	

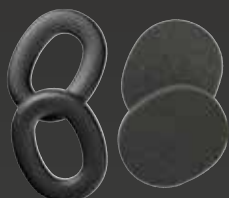
According to EN 352-1:2020

**Gel Sealing Rings HY80-EU**  
 (for ComTac XPI, VI, VII and VIII)  
 Art No: 7100101182  
 NSN: 5965-22-630-0479

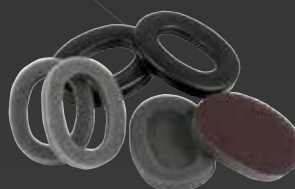
**Hygiene Kits**



**Hygiene Kit HY21**  
 (for SportTac)  
 Art No: 7000039686  
 NSN: 5965-25-150-9692



**Hygiene Kit HYX1**  
 (for Bull's Eye I)  
 Art No: 7000104045  
 NSN: N/A



**Hygiene Kit HY79**  
 (for Tactical XP,  
 WS ProTac XP Headset,  
 LiteCom Plus Headset)  
 Art No: 7100063118  
 NSN: 5965-25-148-6456



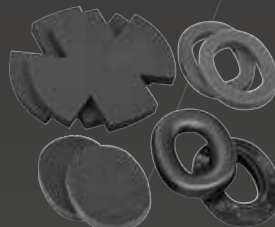
**Hygiene Kit HYX4**  
 (for Earmuff X4)  
 Art No: 7000104048  
 NSN: N/A



**Hygiene Kit HYX5**  
 (for 3M™ PELTOR™ Earmuff X5)  
 Art No: 7000104049  
 NSN: N/A



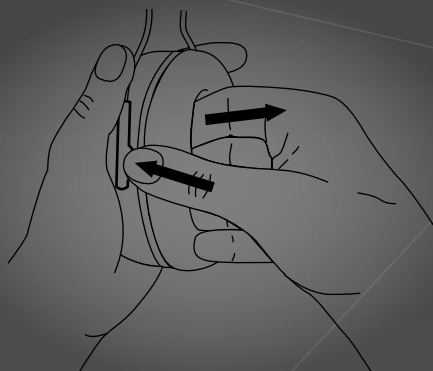
**Hygiene Kit HY68 SV**  
 (for ComTac VIII, VII, VI, XPI)  
 Art No: 7000108023  
 NSN: 5965-12-388-8997



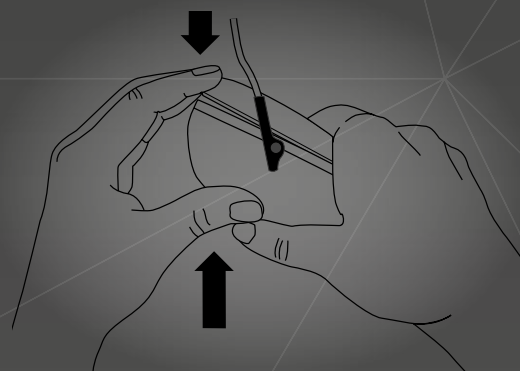
**Hygiene Kit HY45**  
 (for CH-5 Headset)  
 Art No: 7100107408  
 NSN: N/A



**Hygiene Kit HY220**  
 (for ProTac Hunter / Shooter)  
 Art No: 7100101874  
 NSN: N/A



To replace ear cushions, slide your finger under the edge of the ear cushion and pull straight out.



Insert a new ear cushion by pressing until it snaps into place.

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

# Earmuffs & Earplugs

---

3M™ PELTOR™ Earmuffs consist of rigid cups with soft plastic cushions that seal around the ears to block noise and protect the wearer from Noise Induced Hearing Loss (NIHL). They are available in headband, neckband, helmet-attachable and folding models to meet virtually every application need and wearer preference.

3M™ E-A-R™ Hearing Protection Products are manufactured to help anyone who spends time in noisy environments. Over 50 years ago the 3M™ E-A-R™ Classic™ Earplug was introduced. The yellow foam earplug established new standards in hearing protection and comfort. Today this earplug continues to be the most widely recognised product in hearing protection all over the world.





# 3M™ PELTOR™ Earmuffs – X Series

- Combines our extensive knowledge of hearing protection with our advanced technologies, creating our most comfortable, durable earmuff.
- Durable 3M™ PELTOR™ Earmuff
- Features an electrically insulated (dielectric) wire headband
- Twin headband design helps reduce heat buildup with good fit and balance
- 3M ear cushion foam technology for an effective acoustic seal and reliable hearing protection
- Lightweight ear cups with maximum space to help minimize heat and moisture buildup



3M™ PELTOR™  
Earmuff X3



3M™ PELTOR™  
Earmuff X4





3M™ PELTOR™  
Earmuff X5

## 3M™ PELTOR™ Earmuffs – X Series

Description	Art.No / NSN Number	Reference ID
3M PELTOR Earmuff X3, Black / Red	7000103991 / 4240-26-301-5151	X3A
3M PELTOR Earmuff X4, Black / Bright Green	7000103993 / N/A	X4A
3M PELTOR Earmuff X5 Headband, Grey	7000103995 / 4240-31-015-8394	X5A



## Attenuation data \*

### X3A-EU

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	22.8	25.1	27.0	40.0	35.8	38.5	38.9	37	31.9	27	34.2	245 g
SD (dB)	2.1	3.1	1.7	2.8	2.2	2.7	2.9	1.8	1.6	1.9	1.5	
APV = MV - SD (dB)	20.7	22.0	25.3	37.2	33.6	35.8	36.0	35	30	25	33	



According to EN 352-1:2020

### X5A-EU

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	22.3	28.8	39.7	44.2	39.8	43.0	40.2	40.8	37.8	29.9	39.0	351 g
SD (dB)	2.4	2.4	2.7	3.4	4.6	2.8	2.9	3.2	1.7	2.1	1.9	
APV = MV - SD (dB)	19.9	26.4	37.0	40.8	35.2	40.2	37.3	38	36	28	37	

According to EN 352-1:2020

### X4A-EU

	f (Hz)											
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	17.8	22.1	30.6	39.5	37.3	43.8	42.1	39.3	32.1	24.2	34.3	234 g
SD (dB)	2.3	2.5	1.8	2.9	4.1	2.8	4.0	2.9	1.9	2.2	1.9	
APV = MV - SD (dB)	15.5	19.6	28.8	36.6	33.2	41.0	38.1	36	30	22	32	

According to EN 352-1:2020

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

# 3M™ PELTOR™ Bull's Eye Hearing Protectors

## 3M™ PELTOR™ Bull's Eye I

The 3M™ PELTOR™ Bull's Eye I Hearing Protector was designed in collaboration with world-class sport shooters to develop a hearing protector that meets the need of different wearers. For example, a bevelled edge on the bottom of the shell helps prevent the unit from coming into contact with the barrel when sighting. The hearing protector has the necessary attenuation for most shooting applications without being bulky so as not to interfere with the shooting process.

Wearer comfort is one of the critical determining factors when selecting an appropriate hearing protector. The chosen hearing protector needs to be comfortable and offer adequate protection to help ensure the device is worn at all times during exposure to potentially hazardous noise.

The 3M™ PELTOR™ Bull's Eye I features a convenient low profile foldable headband. Available in green and black.



### Attenuation \*

H515FB

	f (Hz)											Weight
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	16.2	17	26.4	33.5	37.1	39.1	34.3	35.8	27.4	20.2	29.9	190 g
SD (dB)	4.1	2.7	2.9	4.6	2.8	3.6	4.7	2.7	2.4	2.7	2.4	
APV = MV - SD (dB)	12.1	14.3	23.5	28.9	34.3	35.5	29.6	33	25	18	28	

According to EN 352-1:2020

## 3M™ PELTOR™ Bull's Eye III Hearing Protector

A hearing protector with extremely high attenuation for very loud noise. The wide, soft, padded headband provides comfort even during prolonged period of use. Available in green.



### Attenuation \*

H540A-441-GN

	f (Hz)											Weight
	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
MV (dB)	18.1	24.5	36.4	37.9	36.4	39.3	37.6	37.4	33.7	25.5	35.1	295 g
SD (dB)	2.2	1.8	2.4	1.8	2.9	3.3	3.7	2.5	1.2	1.4	1.3	
APV = MV - SD (dB)	15.9	22.6	34.0	36.1	33.6	36.0	33.8	35	32	24	34	

According to EN 352-1:2020

## 3M™ PELTOR™ Bull's Eye™ Earmuffs

Description	Art.No / NSN Number	Reference ID
3M PELTOR Bull's Eye I, Green	7000107973 / N/A	H515FB-508-GN
3M PELTOR Bull's Eye I, Black	7000039681 / N/A	H515FB-516-SV
3M PELTOR Bull's Eye III	7000107979 / N/A	H540A-441-GN

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.



# 3M™ E-A-Rfit™ Dual-Ear Validation System

The highest-SNR earplug or earmuff won't provide the expected protection if it doesn't fit right or isn't used right. To help ensure your personnel are getting the protection they need, you should know the Personal Attenuation Rating (PAR) of every employee.

### Fit

Have the employee insert their hearing protection.

### Test

Connect to microphones and begin speaker test sound.

### Assess

Use PAR to customise hearing protector selection.



### Fail

A 'fail' result means the hearing protection is either not inserted properly or is the wrong type or size for the worker's ear canal.



### Pass

A 'pass' result means the hearing protection is inserted properly and provides sufficient protection for the worker's noise exposure.

### NOTE:

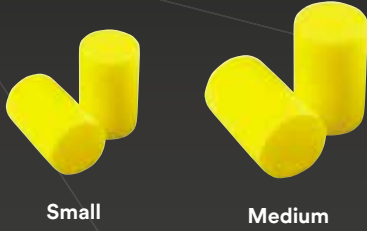
Finding out each employee's PAR is the first step to a successful hearing conservation program. Once a worker's PAR is measured, you can determine if they're using the right hearing protection and ensure they're trained on using it properly.

Research suggests that many users may receive less noise reduction than indicated by the attenuation value(s) on the packaging, due to variation in fit, fitting skill, and motivation of the user. Refer to your national regulations for guidance on how to adjust label values and estimate attenuation. In addition, 3M strongly recommends fit testing of hearing protectors.

## 3M™ E-A-Rfit™ Dual-Ear Validation System and compatible test cushions and plugs

Description	SAP ID	Reference ID
E-A-Rfit Dual-Ear Validation System	7100062125	393-1100
ComTac , ProTac Shooter, LiteCom Pro III, X1, X2, Optime I, II and Bull's Eye II	7100062126	393-3001-2
CH-5 Headset, X4 and X5 X-Series	7100062128	393-3005-2
H540 Optime, Bull's Eye III	7100123728	393-3004-2
X3 X-Series	7100062127	393-3003-2
E-A-R Classic "Medium"	7000052882	393-2003-50
E-A-R Classic Small	7000052884	393-2007-50
TEP-200 Skull Screws, Torque	7100225703	393-2030-50
TEP-200 CCC-GRM	7100225704	393-2031-50
TEP-200 UltraFit Small	7100225700	393-2032-50
TEP-200 UltraFit Medium	7100225705	393-2033-50
TEP-200 UltraFit Large	7100225706	393-2034-50

# 3M™ E-A-R™ Classic™ Earplugs



- Made from a soft energy absorbing polymer foam
- Excellent hearing protection and extended wear comfort
- Ideal for use where noise is a problem, either in work or leisure activities.

## 3M™ E-A-R™ Classic™ Earplugs

Description	Art.No / NSN Number	Reference ID
3M E-A-R Classic Small (250 pair/case)	7000089396 / 6515-99-285-3968	AM-01-000
3M E-A-R Classic (250 pair/case)	7000038198 / 6515-12-313-4340	PP-01-002

## Attenuation data

3M™ E-A-R™ Classic™ Earplugs \*

	f (Hz)											SNR
	63	125	250	500	1000	2000	4000	8000	H	M	L	
MV (dB)	28.7	29.0	30.4	33.1	32.4	33.6	43.1	38.3	34.3	32.1	30.8	34.3
SD (dB)	3.8	4.8	6.0	5.9	6.4	3.4	2.3	3.3	2.9	4.8	4.9	3.8
APV = MV - SD (dB)	24.9	24.2	24.4	27.2	26.0	30.2	40.8	35.0	31	27	26	31

According to EN 352-2:2020

3M™ E-A-R™ Classic™ Earplugs, small \*

	f (Hz)											SNR
	63	125	250	500	1000	2000	4000	8000	H	M	L	
MV (dB)	23.8	25.7	26.3	28.7	28.9	31.6	40.8	37.5	32.4	29.2	27.4	31.8
SD (dB)	5.7	4.4	4.3	4.3	3.8	3.2	2.8	3.9	2.1	2.9	3.1	2.4
APV = MV - SD (dB)	18.1	21.3	22.0	24.4	25.1	28.4	38.0	33.6	30	26	24	29

According to EN 352-2:2020

\*3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.







# Protective Eyewear

---

Besides helping protect your hearing and helping ensure your communication capability, 3M also offers protective eyewear.

3M™ Pressure Diffusion Temple Technology innovative temple design features slotted ribs that provide comfortable pressure equalization, allowing the temples to flex and self-adjust to the size and shape of the wearer's head.

3M has also developed premium protective eyewear coatings to help workers see clearly, longer. Ideal for dirty work environments with frequent temperature changes, Scotchgard™ Anti-Fog Coating resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating. 3x thicker than traditional 3M™ Anti-Fog Coating, Scotchgard™ Anti-Fog Coating's active ingredient is bonded to the lens, increasing durability, up to 25 washings with water, without losing performance\*.

\*Based on 3M internal testing of tap water wash cycles followed by anti-fog testing per EN168 test method.





# The Human Eye

## The Cornea

In direct contact with external environment, plays an essential part on the transmission of light rays. It is the structure of the human body which has the highest tactile sensibility.

## The Pupil

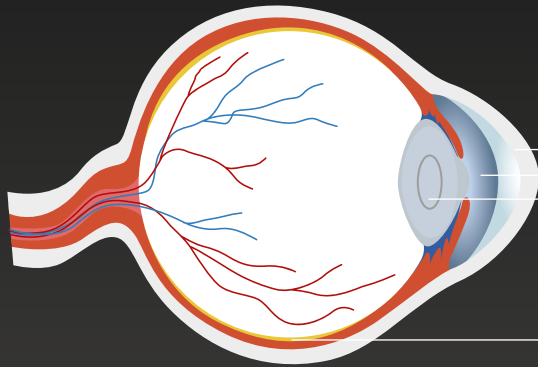
(Light controller), situated in the middle of the iris, works like the diaphragm of a camera. Its diameter changes in accordance with the luminosity.

## The Lens

The Lens allows focusing (near vision, far vision) thanks to a control muscle. With age this muscle loses power and impacts near vision (presbyopia). The lens can lose its transparency due to exposure to IR (infrared light) and UV (ultraviolet light), resulting in loss of vision (cataract).

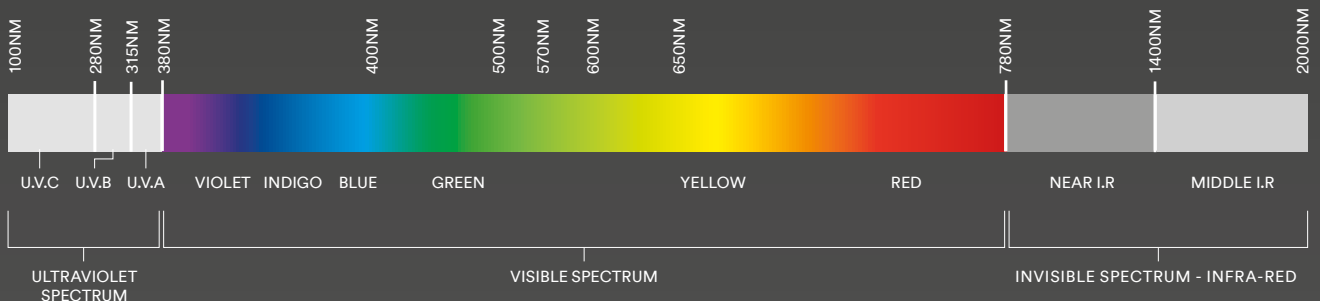
## The Retina

Where all light beams converge, transmits all information through the optic nerve to the brain in order to create your vision. Burned retina cells are lost forever which cause irreversible loss of vision.



### Potential Industrial hazards for the eyes

- Mechanical hazards: dust, shock, solid particles.
- Thermal hazards: hot liquid, molten splash, flames.
- Chemical or Biological hazards: splashes of acids, solvents, alkalis, infected blood.
- Radiation hazards: ultraviolet, infrared, visible, light, laser.
- Electrical hazards: direct contact, short-circuit electric arc.



	U.V.C 100 to 280nm	U.V.B 280 to 315nm	U.V.A 315 to 380nm	Blue light 380 to 480nm	Visible light 380 to 780nm	Near I.R 780 to 1400nm	Middle I.R 1400 to 2000nm
<b>Cornea</b>	Conjunctivitis Partial blindness	Conjunctivitis Partial blindness	Conjunctivitis Partial blindness				
<b>Lens</b>		Cataract Premature aging	Cataract Premature aging			Cataract	Cataract Partial blindness
<b>Retina</b>				Partial Blindness Photoreinitis	Vision problems Discontinuous vision	Retinis Pigmentosa Blindness	

## 3M™ SecureFit™ Safety Glasses 600 Series



### 3M™ Pressure Diffusion Temple Technology

- The temples flex and self-adjust to the size of wearer’s head, helping to provide a comfortable and secure fit
- Helps remain securely in place as the wearer looks up and down or side to side – may reduce the need for frequent repositioning of the glasses due to head movement

### 3M™ Scotchgard™ Anti-Fog Coating\*

- Ideal for dirty work environments with frequent temperature changes
- Resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating, complying with K & N marking requirements of EN166
- Scotchgard™ Anti-Fog Coating’s active ingredient is bonded to the lens, increasing durability, up to 25 washings with water, without losing performance\*\*.

\*\*Based on 3M internal testing of tap water wash cycles followed by anti-fog testing per EN168 test method.

- Scotchgard™ Anti-Fog/Anti-Scratch Coating also withstands disinfection with diluted bleach soaking or alcohol wipes without losing its anti-fog performance.

### Lightweight

Weighs less than 27g.

### UV 400 Protection

Grey and Amber lenses are labeled UV 400, providing 99.9% protection from harmful ultraviolet light rays, blocking wavelengths between 200-400 nanometers, including UVA, UVB, and some UVC rays

### Three Lens Tint Options:

Clear, Grey, Amber

## 3M™ GoggleGear™ Safety Goggles 6000 Series



### Large profile, big performance.

- Optical class 1 lens for prolonged use
- Single piece lens design
- Adjustable polyester fibre cloth headband
- Protection against liquid droplets or splashes – meeting code 3 according to EN 166
- Protection against large dust particles – meeting code 4 according to EN 166
- Offers protection against UV radiation up to 380nm

### 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Coating

- Ideal for dirty work environments with frequent temperature changes
- Resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating, complying with K & N marking requirements of EN166
- Scotchgard™ Anti-Fog Coating’s active ingredient is bonded to the lens, increasing durability, up to 25 washings with water, without losing performance\*\*.
- Scotchgard™ Anti-Fog/Anti-Scratch Coating also withstands disinfection with diluted bleach soaking or alcohol wipes without losing its anti-fog performance. 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Coating provides scratch resistance and durability, even after multiple washes.

### Three Lens Tint Options:

Clear, Grey, Shade 5.0 IR

### 3M™ SecureFit™ 600 Series Safety Glasses with Scotchgard™ Coating

Description	Art No / NSN Number	Reference
3M SecureFit 600, Gray frame, Scotchgard™ Anti-Fog, Clear lens	7100112717	*SF601SGAF-EU
3M SecureFit 600, Gray frame, Scotchgard™ Anti-Fog, Grey lens	7100112716	*SF602SGAF-EU
3M SecureFit 600, Gray frame, Scotchgard™ Anti-Fog, Amber lens	7100112712	*SF603SGAF-EU
3M SecureFit 600 Foam insert	7100112725	SF600FI-EU

### 3M™ GoggleGear™ 6000 Series Safety Goggles

Description	Art No / NSN Number	Reference
3M GoggleGear 6000 Series Safety Goggles, Black Shroud and Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Clear Lens	7100216582	*GG6001SGAF-BLK EU
3M GoggleGear 6000 Series Safety Goggles, Black Shroud and Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Grey Lens	7100216514	*GG60002SGAF-BLK EU



# 3M™ GoggleGear™ Safety Goggles 2890 Series



## Features and Benefits:

- Optical class 1 lens suitable for prolonged use.
- Provides excellent protection against liquid droplets and large dust particles.
- Lens treatment provides both scratch resistance and anti-fogging.
- Wide, easy-to-adjust strap for stable comfortable fit.
- Pivoting ratchet for convenient individual adjustment and fit.
- Indirect ventilation improves air circulation and reduces fogging in hot/humid conditions (2890/2890A).
- Additional protection against gas & fine particles (2890S/2890SA/2895S), acetate lens option for increased chemical resistance.
- Replacement lens options.

## Component

Component	Material
Lens	Polycarbonate (2890/2890S) Acetate (2890A/2890SA)
Frame	PVC
Head strap clips	Nylon
Head strap	Elasticated Polyester
Weight	99g

## Tested according to EN 166:2001

The 3M 2890 Series Safety Goggles have been shown to meet the basic safety requirements under Module B of the PPE Regulation (EU) 2016/425 and is thus CE marked.

## 3M™ GoggleGear™ 2890 Series Safety Goggles

Description	Art No / NSN Number	Reference
3M GoggleGear 2890 Safety Goggles, PC lens, ventilated AS/AF	7000032480	2890
3M GoggleGear 2890S Safety Goggles, PC lens, unventilated AS/AF	7000061924	2890S
3M GoggleGear 2890A Safety Goggles, Indirect Vented, Acetate lens, AF	7000032481	2890A
3M GoggleGear 2890SA Safety Goggles, Sealed, Acetate Lens, AF	7000032483	2890SA

Please note: The indicated 3M Protective Eyewear does not have Military product certifications.

# 3M™ Protective Apparel

At 3M we have a select and high quality range of CE Certified products from CE simple coveralls to PPE Regulation Category III Coveralls, which provide protection against many hazards.









The range of 3M protective apparel offers a variety of features, from the use of fabrics with specialist treatments for enhanced wear and added protection, to breathable back panels for increased comfort. Our experts can work closely with you, to help you identify hazards and best protect your workers against them.

## Standards

There are many tests and standards that apply to protective coveralls and selection can be a daunting task. The following section outlines the different options available to help you select the right product for your employees. For more information on how the tests are done, and what they mean practically to you, review the technical bulletins and guides within our 3M protective apparel literature.





### Protection Types

Depending on the materials and construction, protective coveralls can be designed for either hazardous applications (certified to CE Category III) or non-hazardous applications (approved as CE Simple Category 1). Products for hazardous applications can be tested and certified to any of six different "Type" standards providing guidance on suitability of use:

Category	Symbol	Protection Type	Standard	3M Products
CE Category III 		1 – Gas Tight	EN 943-1	N/A
		2 – Non-gas tight	EN 943-1	N/A
		3 – Liquid Jet Protection	EN 14605 + A1	4570
		4 – Liquid Spray Protection	EN 14605 + A1	4565
		5 – Hazardous Particulate Protection	EN ISO 13982	4545, 4540+, 4535, 4532+, 4530, 4520, 4515, 4510
		6 – Liquid Splash Protection	EN 13034 + A1	
CE Category I		CE Simple		4500

### Additional Standards

Some 3M™ Protective Coveralls and their materials are approved to additional standards for specialist applications.

Symbol/Standard	Protection Type
	Protection against micro-organisms or infective agents (EN 14126:2003)
	Protection against nuclear particles (EN 1073-2:2002)
	Anti-static (EN1149-5: 2018)
ISO 15025 / ISO 14116	Limited Flame Spread Resistance
	Where added to the above symbols please refer to the appropriate user instructions for further information on the compliance of this product

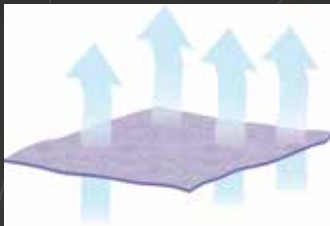


# Materials

The following is a guide that offers a brief description and comparison of the materials used in 3M's protective coverall range. Base materials can be treated, for instance, with an anti-static treatment, to enhance the total protection offered.

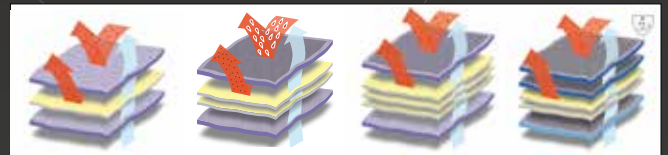
## Non-woven Polypropylene

Offers comfortable light-duty protection against nonhazardous liquids and dust.



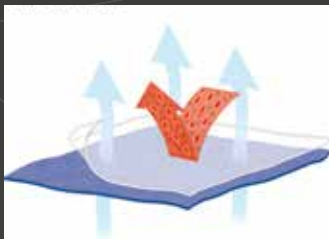
## Spunbond-Meltblown Polypropylene (SMS)

'SMS' can be layered differently to adjust the protective and physical properties of the material. Standard SMS-material is very breathable and offers a good barrier against dusts and limited liquid splashes.



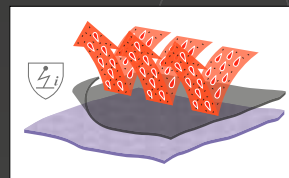
## Microporous Laminates

'Microporous laminates' offer a higher level of liquid splash protection, while the micropores allow for some breathability.



## Non-microporous Laminates

'Non-microporous laminates' can offer an even higher level of liquid protection. Adding multiple layers of the laminate can also increase robustness and chemical holdout.



## Design Features

3M™ Protective Coveralls can offer a variety of features depending on your needs. The illustration below highlights some of the features available:

Contains no components made from natural rubber latex

Two-way zipper for on/off convenience

Anatomical design and fit for optimal wear, coverage and comfort

Elasticized waist and ankles and knit or elastic cuffs on all models for increased comfort and mobility



Three panel hood design on most models for compatibility with complementary PPE




Seamless shoulder and sleeve tops for fewer entry points for contaminants and increased comfort

Storm flap on all coveralls to help provide additional protection

Available in a variety of sizes (S-4XL).

• Backed by 3M global technical capabilities and support

# 3M™ Respiratory Protection Solutions

Disposable Respirators	Reusable Respirators	Powered and Supplied Air Respirators
		
<p>Disposable respirators are an excellent choice for workplaces where cleaning and maintenance is not practical.</p> <p>Constructed from advanced materials, including 3M™ Advanced Electret Filter Media, 3M™ Disposable Respirators are designed for comfort and protection, allowing your team to give their best.</p>	<p>Reusable respirators can help to reduce cost and waste* in workplaces where regular cleaning and maintenance is possible.</p> <p>Designed to be easy-to-use and utilising comfortable, durable materials, 3M™ Reusable Respirators will help to give your team confidence in their protection.</p>	<p>Powered and supplied air respirators can integrate head, eye, face, hearing and respiratory protection, while keeping your team comfortable for long periods.</p> <p>Designed to be adaptable for different conditions, 3M™ Powered and Supplied Air Respirators will help to protect your team in demanding environments.</p>

\*Compared to daily usage and disposal of disposable respirators, when the reusable respirator is properly maintained.

	Disposable Respirators	Reusable Respirators	Powered and Supplied Air Respirators
Can provide protection from particulate hazards (e.g. dust, mists, metal fumes)	✓	✓	✓
Can provide protection from gas and vapour hazards (e.g. solvents)	✗	✓	✓
Requires cleaning and maintenance	✗	✓ <sup>1</sup>	✓
Options for wearers who have facial hair	✗	✗	✓
Options for organizations who prefer not to face-fit test <sup>2</sup>	✗	✗	✓ <sup>2</sup>

1. Maintenance-free options are available. For example the 3M™ Maintenance Free Reusable Respirator 4000+ Series  
 2. Face-fit testing is a legal requirement in some countries, and is always 3M recommended best-practice, for tight-fitting respirators.





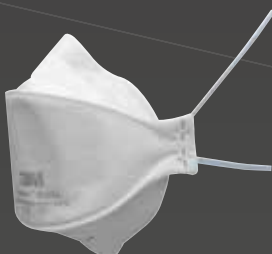
# Filtering Facepiece Respirators

## Selecting a Filtering Facepiece Respirator

	FFP1	FFP2	FFP3
<b>Nominal Protection Factor</b>	<b>NPF 4</b>	<b>NPF 12</b>	<b>NPF 50</b>
<b>Typical Applications</b>	Low levels of fine dust particles and oil or water based mist typically found during hand sanding, drilling and cutting	Moderate levels of fine dust particles and oil or water based mist typically found during plastering, cement, sanding and wood dust	Higher levels of fine dust particles and oil or water based mist typically found when handling hazardous powders found in the pharmaceutical industry or work with biological agents and fibres

Nominal Protection Factor (NPF): The theoretical protection level of a respirator based on laboratory measured performance data.

## Types of Filtering Facepiece Respirator



### 3M™ Flat-Fold Respirators

- Ultra soft, flexible and comfortable fit resulting from the multiple panel design
- Comfort Series - Flat Fold only: Individually packed, foldable design prevents contamination before use and allows easy storage



### 3M™ Cup-Shaped Respirators

- Convex shape, nose clip and twin strap design
- Easy to fit
- Durable, collapse resistant shell



### 3M™ Cool Flow™ Valve

- Effective removal of heat build-up provides a cooler and more comfortable wear
- Provides longer continuous wear time
  - Reduces risk of fogging of spectacles and eyewear



### 3M™ Buckle Strap Respirators

- Robust and durable design provides multishift capability and secure feel
- Adjustable braided headbands
- Soft inner face-seal improves comfort



## CBRN Respiratory Protection



### **3M™ Scott™ Reusable Respirator M95**

Presents the highest standard in modern CBRN protection providing unrivalled reliability, safety and user friendliness. Designed to meet the most critical hazards and stresses encountered in combat situations, the M95 gas mask is approved to EN136. Approved for both CBRN and non-CBRN applications.



### **3M™ Scott™ Reusable Respirator M98**

Designed particularly to protect against Chemical, Biological, Radiological and Nuclear (CBRN) hazards and riot control agents. Designed for extended wear times, the EN136 approved M98 offers a drinking device port for quick rehydration during line rotation. PAPRs offer continuously filtered air and mobility during CBRN crisis events like mass casualty events or acts of terrorism.



### **3M™ Scott™ CBRN Filters**

3M™ Filters DT-Series are available in a range of specifications to provide protection against particulate hazards, gas & vapour hazards or a combination of both. They are designed for use with 3M Reusable and Powered Air Respirators with DIN 40 filter ports.

Available in a range of specifications to provide protection against particulate hazards, gas & vapour hazards or a combination of both.



## Respiratory Protection



### Full face masks

#### **3M™ Scott™ Promask Positive Pressure Face Mask**

Features a Procomp (bromobutyl/EPDM) outer mask with reflex seal and TPE ori-nasal inner mask. Used with a 3M Scott breathing apparatus, they're suitable to provide respiratory protection in Immediately Dangerous to Life or Health (IDLH) environments.



### Full face masks

#### **3M™ Scott™ Vision 3 Positive Pressure Face Mask**

Features a liquid silicone rubber outer mask with reflex seal and TPE ori-nasal inner mask. Used with a 3M Scott breathing apparatus, they are suitable to provide respiratory protection in Immediately Dangerous to Life or Health (IDLH) environments. SCBA Respirator.



### Full face masks

#### **3M™ Scott™ AV-3000 HT Face Mask**

The 3M™ Scott™ AV-3000 HT is a high-performance face mask made of innovative materials which have been engineered to provide enhanced thermal durability and improved wearer safety in the most extreme conditions.



### Escape respirator

#### **3M™ Scott™ ELSA**

The 3M™ Scott™ ELSA (Emergency Life Support Apparatus) is an escape breathing apparatus which provides a constant supply of air for rapid escape from hazardous environments. Designed to be reliable, robust, and quick and simple to operate, ensuring maximum protection in escape situations.





SCBA for Emergency Services  
**3M™ Scott™ ProPak Sigma**

The 3M™ Scott™ ProPak Sigma is a Type 2 open-circuit self-contained compressed-air breathing apparatus with an unpadded carrying harness.

The ProPak Sigma breathing apparatus consists of a backplate, unpadded carrying harness, and a pneumatic system that contains a cylinder connector, reducer, pressure gauge, whistle and demand valve.



SCBA for Emergency Services  
**3M™ Scott™ ProPak-i**

The 3M™ Scott™ ProPak-i is a Type 2 open-circuit self-contained compressed-air breathing apparatus with a padded lower harness.

Suitable for providing respiratory protection in any IDLH environment,, the 3M™ Scott™ ProPak-i features a padded lower harness for comfort. The ProPak-i breathing apparatus consists of a backplate, carrying harness, and a pneumatic system that contains a cylinder connector, reducer, pressure gauge, whistle and demand valve.



SCBA for Emergency Services  
**3M™ Scott™ ProPak-f**

The 3M™ Scott™ ProPak-f is a Type 2 open-circuit self-contained compressed-air breathing apparatus with padded upper and lower harness.

Designed for use by the professional fire service, the 3M™ Scott™ ProPak-f features padding in the upper and lower harness for improved comfort. The ProPak-f breathing apparatus consists of a backplate, carrying harness, and a pneumatic system that contains a cylinder connector, reducer, pressure gauge, whistle and demand valve.



SCBA for Emergency Services  
**3M™ Scott™ ProPak-fx**

The 3M™ Scott™ ProPak-fx is a Type 2 open-circuit self-contained compressed-air breathing apparatus with height-adjustable backplate and padded upper and lower harness.

Designed specifically to meet the demands of the professional fire service, the 3M™ Scott™ ProPak-fx offers performance and user comfort with a height-adjustable and pivotable backplate and padded harness. The ProPak-fx breathing apparatus consists of a backplate, carrying harness, and a pneumatic system that contains a cylinder connector, reducer, pressure gauge, whistle and demand valve.



The 3M™ Scott™ ProPak Self-Contained Breathing Apparatus are approved to EN 137:2006 Type 2 (incorporating the stringent full flame engulfment test), MED, ISO 20269-2 and ISO 23269-3.

# Protection for Maintenance & Repair Operations

3M is dedicated to supplying effective personal protection solutions to the thousands of dedicated defence personal. Whether you are a mechanic in the army, an electrician in the navy or ground crew in the air force, 3M has a solution to help keep you protected.

## Training and Support

3M's team of Specialist Representatives are available nationally, to provide support and training that meet the needs of our customers. Furthermore, our qualified and highly experienced team are able to assist customers by:

- Providing guidance to employers on conducting initial and ongoing assessments of the workplace
- Recommending appropriate respiratory, hearing, eye protection, communication and spill management solutions required to help maintain a safe work environment
- Providing technical advice about the correct use and maintenance of the solution that has been selected
- Facilitate on-site fit testing for both respiratory and hearing protection solutions, as required

No matter how effective a piece of Personal Protective Equipment is, it will offer little or no protection if it is not fitted and/or worn correctly. Proper inspection, cleaning and storage is vital for safety equipment that helps protect a worker's health and well-being. That is why we offer training programs that explain the correct way to fit, inspect, clean and store the PPE designed and manufactured by 3M.

## Technical Assistance

3M TechAssist is an excellent point of contact for your questions, especially when you require a prompt answer. Supported by trained staff, TechAssist is an immediate link to the worldwide resources of 3M.

# COMHEAD®

PROTECTIVE EAR TO EAR COMMUNICATION



Comhead Headset Company GmbH  
Borsteler Chaussee 51  
22453 Hamburg  
Germany

[www.comhead.de](http://www.comhead.de)  
[info@comhead.de](mailto:info@comhead.de)  
+49 40 500 580 20

## Important notice

**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application.

As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms & conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.



**3M Personal Safety Division**  
**3M Svenska AB**  
Box 2341  
SE-331 02 Värnamo, Sweden

This catalogue is for EMEA region only.

**3M United Kingdom PLC**  
3M Centre  
Cain Road, Bracknell  
Berkshire RG12 8HT  
t: 0870 60 800 60  
[www.3M.co.uk/safety](http://www.3M.co.uk/safety)

© 3M 2024. All rights reserved. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by 3M Company is under license. 3M, PELTOR, ComTac, WS, ProTac, UltraFit, Torque, E-A-R, Classic, SecureFit, Scotchgard, GoggleGear, Cool Flow and E-A-Rfit are trademarks of 3M Company.

 [www.facebook.com/3mpeltor](https://www.facebook.com/3mpeltor)

 [@3mpeltor](https://www.instagram.com/3mpeltor)

 [www.youtube.com/3mpeltor](https://www.youtube.com/3mpeltor)