

**3M** Science.  
Applied to Life.™



# 3M™ Military & Civil Defence Portfolio



**PELTOR™**  
Protection & Communication

**We strive to set the standard for confidence and trust by providing rugged, reliable protective communication equipment.**

**3M™ PELTOR™ Solutions for today's modern warfighter have been worn for use in combat and combat support operations and are compatible with most firearms and ballistic helmets. The hearing protectors feature external microphones for environmental listening (aka *Talk-Through*) capability, so operators can maintain auditory situational awareness while protecting their hearing.**

**With more than 65 years of experience, the PELTOR™ Brand promises quality communication solutions that help provide an excellent balance of performance and protection.**

**The advanced engineering and technology inherent with the PELTOR™ Brand fits with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.**



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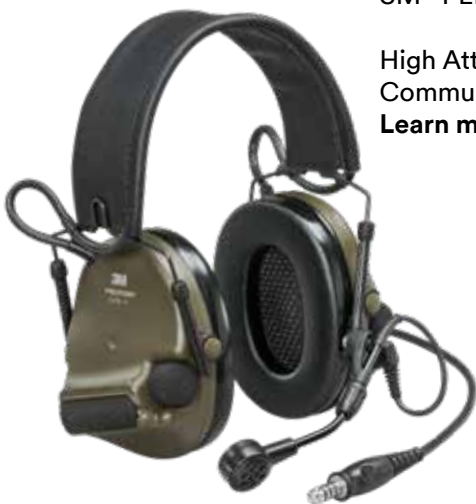
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New products

## ComTac VI, NIB Headset

3M™ PELTOR™ ComTac™ VI

High Attenuation  
Communication Headset.  
**Learn more on page 14**



**Small, lightweight with wireless comms and situational awareness**

The 3M™ PELTOR™ TEP-200 EU Tactical Earplug. **Learn more on page 32**



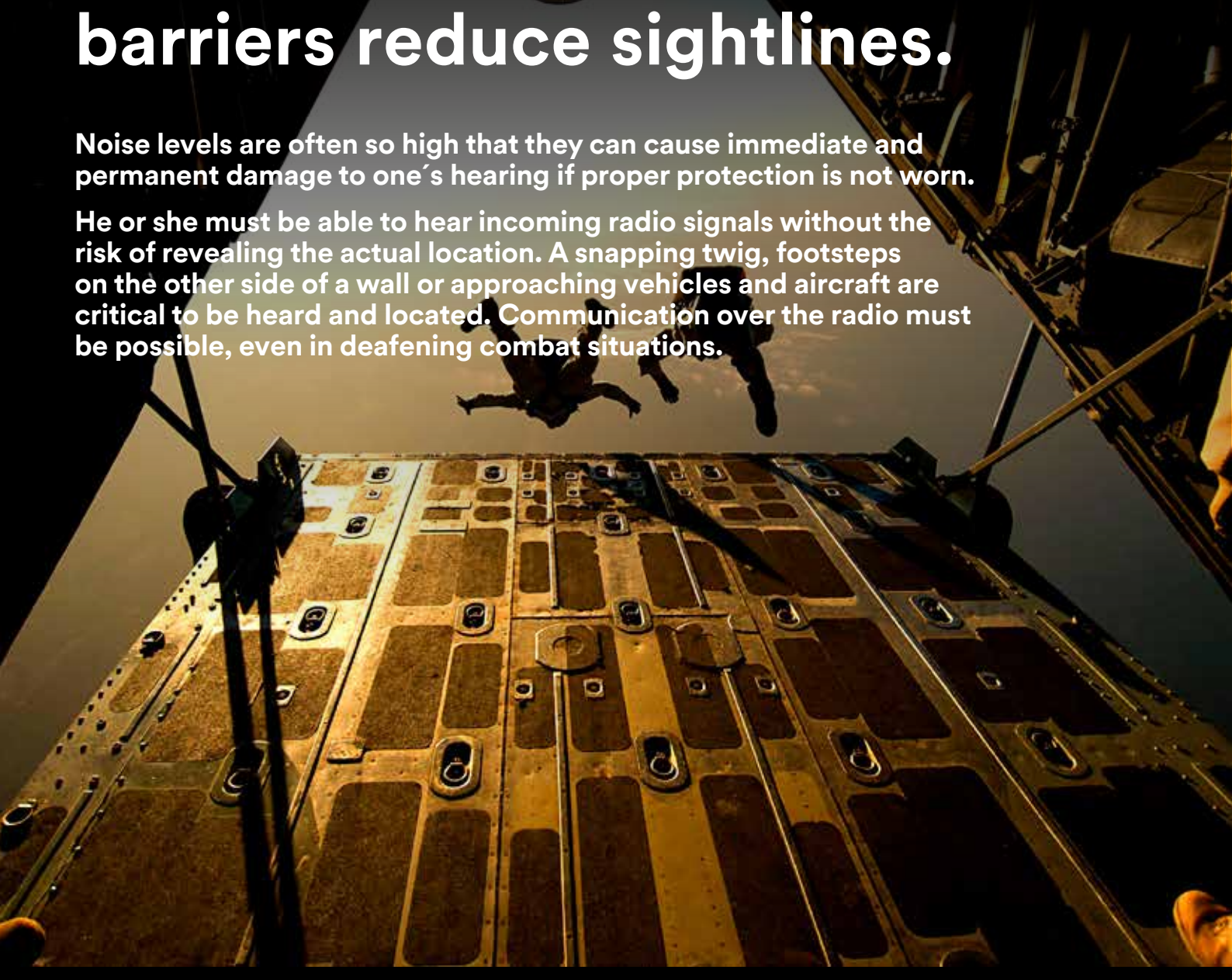


**PELTOR™**  
Protection & Communication

**A soldier's senses must be sharp at all times to enable successful operations. Hearing is a critical sensor that provides information when vision is reduced such as darkness and when barriers reduce sightlines.**

Noise levels are often so high that they can cause immediate and permanent damage to one's hearing if proper protection is not worn.

He or she must be able to hear incoming radio signals without the risk of revealing the actual location. A snapping twig, footsteps on the other side of a wall or approaching vehicles and aircraft are critical to be heard and located. Communication over the radio must be possible, even in deafening combat situations.









**PELTOR™**  
Protection & Communication

# Communication and Hearing Protection

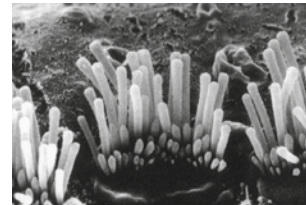
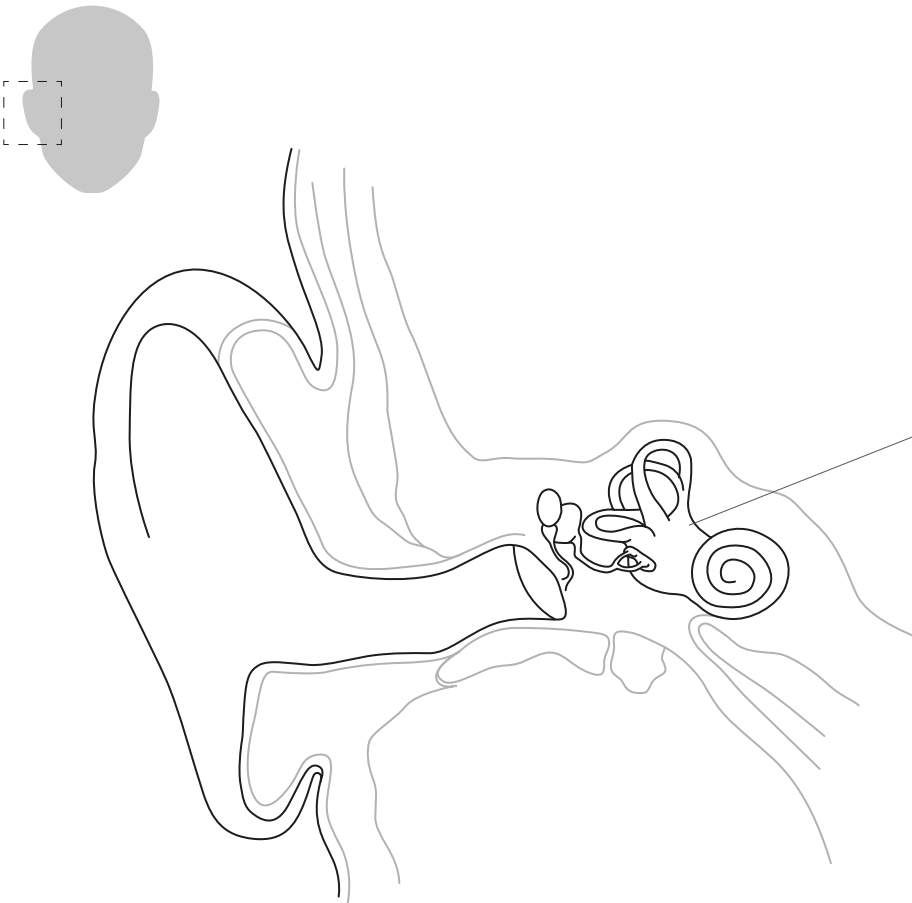




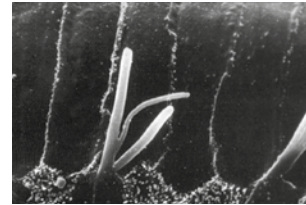


# Easy To Damage – Easy To Protect

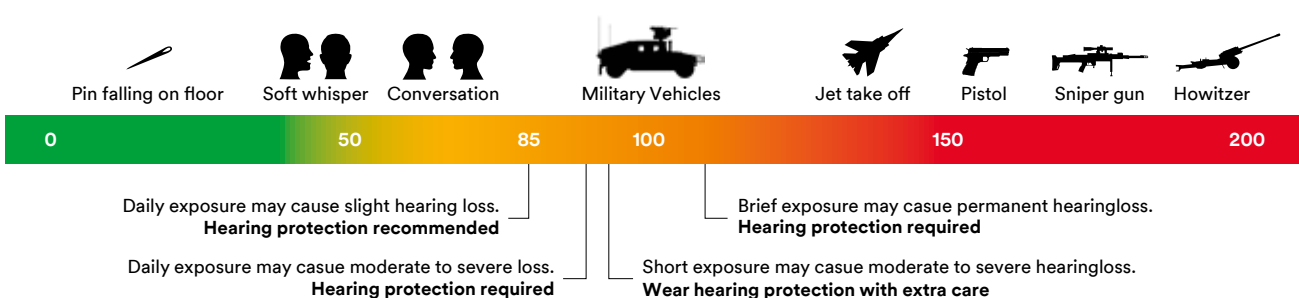
The human ear is designed to pick up low levels of natural sounds. All of our exciting machines and inventions have created a whole range of unnatural sounds that the ear isn't designed to handle. When the stereocilia are repeatedly exposed to excessive doses of noise, they break. The surviving stereocilia can only handle a fraction of the usual information transfer, and permanent hearing damage is the result.



Normal, uninjured ear. An electron microscope shows the hair cells with their fine stereocilia, which are put into motion by sound waves.



Noise damaged ear. The tiny hairs have been repeatedly exposed to loud noise and eventually broken. Permanent hearing loss has occurred.







# A few minutes of carelessness

A damaged ear cannot be repaired. Exposure to hazardous noise is one of the most common causes of hearing impairment.

We can only tolerate a limited daily dosage of noise. How harmful the noise is depends on the exposure time in combination with the sound level. Effective protection drops quickly when hearing protectors are not worn. Full-time wear is therefore the only way to guarantee protection.

## 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 feels less isolated and can communicate with others more easily.



usage

**Gives the expected protection**



usage

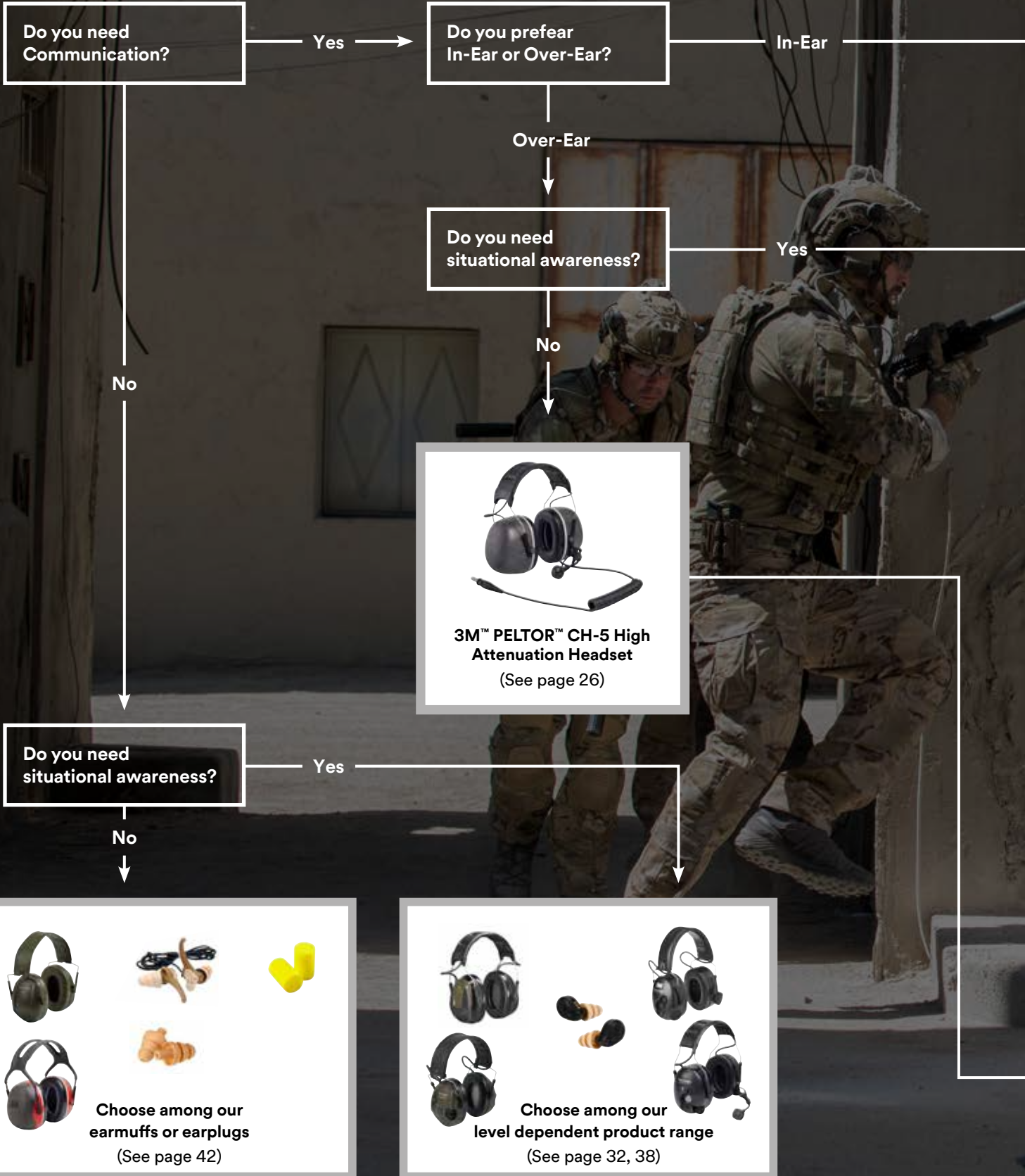
**Just few minutes of carelessness per day  
Significantly increased risk of hearing damage**



usage



**Virtually no protection**

# Selection guide










**Select: Colour**



  
 Green      Black






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**Select: Radio communication**


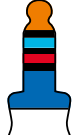

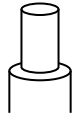





  
 No radio connection      Single comm      Dual comm      Dual comm split audio      Neck Loop

---

**Select: Microphone type**






  
 No Mic      Standard      Flex      \*Bone      Throat

**Select: Wiring**





  
 PELTOR J11      NATO J11      Stereo J11      \*LEMO

- MIC -
- MIC +
- Earphone +
- Earphone -
- Earphone L +
- Earphone R +
- MIC - (com. ground)

\* Only optional for 3M™ PELTOR™ ComTac™ XPI







# ComTac™ Headset Solutions

Over 20 years of changing the game

---

Being able to communicate with your surroundings whilst at the same time being protected 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 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 20 years ago and so far over 700,000 headset have been delivered and used in more than 40 countries worldwide.

Now we are very proud to announce that we are ready to introduce the 6th generation ComTac™ VI NIB.

# 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.

**Hearing Protection**

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

**MAP - Mission Audio Profiles**

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

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

**2xAAA batteries (one on each cup)**

Lasting for approx. 50 hours of use. The headset will turn off after 4 hrs of non-use to save batteries. A message will be heard when the battery is low.

**Compatible with legacy PELTOR adapter**



**Wireless input via MI**

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

**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. Still 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 to different scenarios.

### Fail-safe mode

External communication and “Level dependent - Situation Awareness”. External radio RX/TX communications are independent of headset battery power, fail safe mode.

In the event of battery depletion or other power failure, external communications will continue to function.



# How does the 3M™ PELTOR™ ComTac™ VI NIB headset work?

NIB, offers a hands-free adaptive VOX capability allowing face to face communication in full duplex for up to four talkers and up to sixty listeners within a 10 meter radius. This significantly increases the ability to communicate when on a boat, in tactical vehicles, aircraft, even in a loud small arms conflict without the need for tactical radio or intercom. This ability is the first of its kind in the tactical communications market.



# New advanced Level dependent function for ambient listening



Mission Audio Profiles

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



**Advanced mode 1 - (Comfort)**  
For comfort in a very noisy environment.



**Advanced mode 2 - (Conversation)**  
For a natural audio experience where protection against sudden noises is necessary.

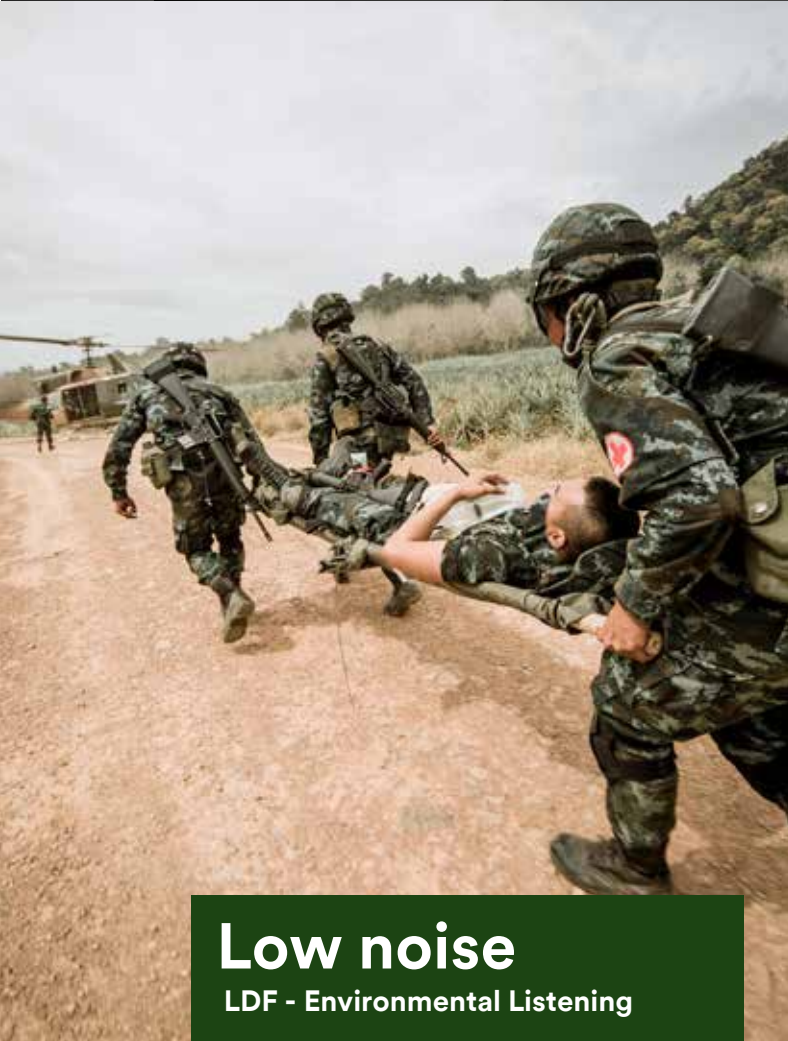


**Advanced mode 3 - (Patrol)**  
For high situational awareness when walking in a low noise environment.



**Advanced mode 4 - (Observation)**  
For powerful situational awareness in a quiet environment.





## Low noise

LDF - Environmental Listening

The environmental microphones allow the users to communicate in lower noise environments.

NIB complements LDF in high noise environments when LDF is no sufficient.

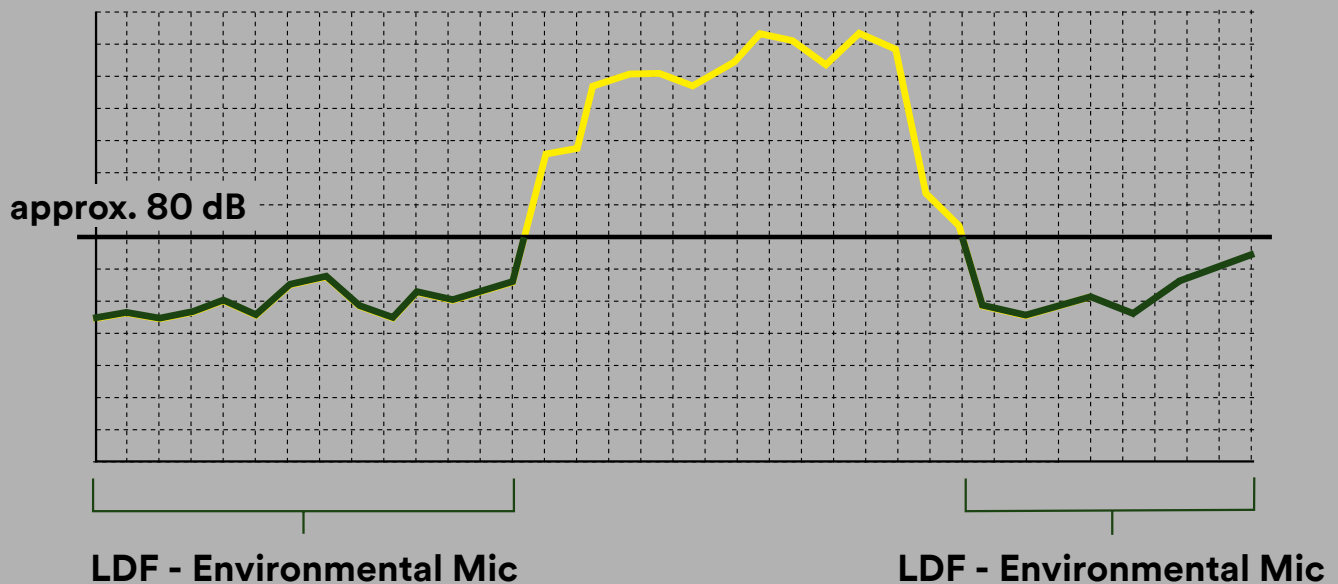


## High noise

NIB - Natural Interaction Behaviour

When the environmental noise increases and remain constant, the NIB communication activates.

NIB





### 3M™ PELTOR™ ComTac™ VI NIB Headset

# Electronic Level Dependent Hearing Protection



Hearing protection	✓
NIB "Natural Interaction Behavior" function for improved face-to-face communications in noise	✓
Detachable speech microphone	✓
Level-dependent function for ambient listening	✓
Earplug mode	✓
Automatic power off	✓
Wireless input via MI	✓
MAP - Mission Audio Profile	✓
Tested according to military standards*	✓
Headband types Neckband Foldable headband	✓
Battery life	~ 30-50h**

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

\*\* Battery & temperature dependent

Description	3M product code	Reference Id	Attachment
ComTac™ VI NIB Standard Headset, Green	UU009549500	MT20H682FB-02N GN	Foldable head band
ComTac™ VI NIB Standard Headset, Black	UU009554922	MT20H682FB-02N SV	Foldable head band

## Attenuation tables

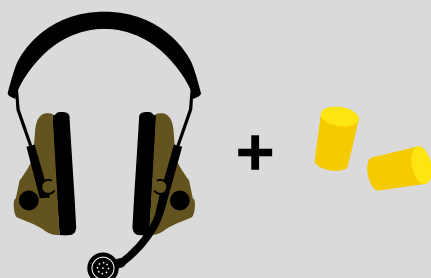
MT20H682FB-*1							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	11.5	17.9	27.8	30.0	32.1	36.2	40.3
Standard deviation (dB)	2.5	2.7	1.8	2.3	3.0	2.0	3.1
Assumed Protection Value (dB)	9.0	15.3	25.9	27.7	29.1	34.2	37.2

According to EN352-1:2002 \*\*\*SNR=28dB H=31dB M=25dB L=16dB

MT20H682BB-*1							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.6	16.8	27.4	32.1	33.1	33.0	36.1
Standard deviation (dB)	1.8	2.3	2.2	2.1	3.2	2.9	3.2
Assumed Protection Value (dB)	14.8	14.5	25.2	30.0	29.9	30.1	32.9

According to EN352-1:2002 \*\*\*SNR=28dB H=31dB M=25dB L=18dB

## Earplug mode



MT20H682FB* in combination with 3M™ E-A-R™ Classic™ earplug ( EAR Plug mode )							
Frequency (Hz)	63	125	250	500	1000	2000	4000 8000
Mean Attenuation (dB)	33.6	35.5	40.8	51.4	44.7	37.0	48.1 44.8
Standard deviation (dB)	4.4	5.8	5.0	6.6	4.8	3.6	4.9 4.8
Assumed Protection Value (dB)	29.1	29.7	35.8	44.9	40.0	33.5	43.3 40.0

According to EN352-1:2002 \*\*\*SNR=39 dB H=36 dB M=38 dB L=36 dB

\*\*\* 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™ PELTOR™ ComTac™ VI NIB Headset

## Electronic Level Dependent Headset



Hearing protection	✓
NIB "Natural Interaction Behavior" function for improved face-to-face communications in noise	✓
Detachable microphone	✓
Level-dependent function for ambient listening	✓
Earplug mode	✓
Wireless input via MI	✓
Automatic power off	✓
MAP - Mission Audio Profile	✓
Tested according to military standards*	✓
<b>Headband types</b>	
Neckband	✓
Foldable headband	✓
<b>Battery life</b>	~ 30-50h**

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

\*\* Battery & temperature dependent

## 3M™ PELTOR™ ComTac™ VI NIB Headset matrix

3M ID / SAP ID	Product Description	Colour	Band Style		Mik typ.	Connector			
			F-Band	Neck-band		Standard	No Connector	PELTOR J11	NATO J11
UU009549500 7100168351	MT20H682FB-02N GN ComTac™ VI NIB Standard Headset	●	●		●	●			
UU009554948 7100168384	MT20H682FB-38N GN ComTac™ VI NIB Headset	●	●		●		●		
UU009554476 7100168800	MT20H682FB-86N GN ComTac™ VI NIB Headset	●	●		●			●	
UU009554930 7100168383	MT20H682FB-19BN GN ComTac™ VI NIB Headset	●	●		●			●	
UU009554492 7100168803	MT20H682FB-88N GN ComTac™ VI NIB Headset	●	●		●				●
UU009898063 7100191429	MT20H682BB-38N GN ComTac™ VI NIB Headset	●		●	●		●		
UU009873538 7100191318	MT20H682BB-86N GN ComTac™ VI NIB Headset	●		●	●			●	
UU009554922 7100168352	MT20H682FB-02N SV ComTac™ VI NIB Standard Headset	●	●		●	●			
UU009554963 7100168802	MT20H682FB-38N SV ComTac™ VI NIB Headset	●	●		●		●		
UU009554484 7100168801	MT20H682FB-86N SV ComTac™ VI NIB Headset	●	●		●			●	

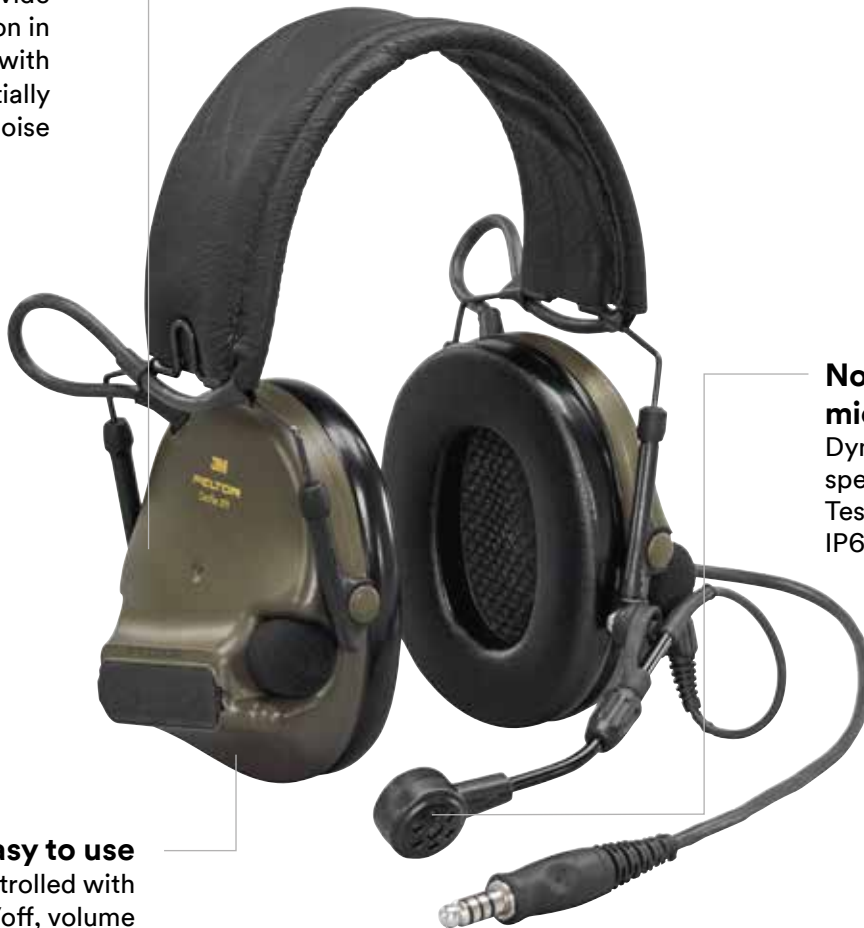


# Headset Features

## 3M™ PELTOR™ ComTac XPI™ Headset

### Hearing Protection

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



### Noise canceling microphone

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

### Easy to use

The headset is controlled with two buttons for on/off, volume and menu functions.

“Plug and play”, no start up time

### Great Connectivity

The external cable allows for easy Push-to-Talk (PTT) connectivity

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

### Level dependent – Situational Awareness

Environmental Listening is a means of allowing safe audio sounds to bypass the individual hearing protection while still protecting against harmful noises. This is accomplished with a proprietary digital audio circuit integrated into the headset.

A microphone receives the sounds outside the headset and transmits them to a speaker inside the headset. The Level-Dependent digital audio circuit senses noise levels above the desired threshold and compresses them to a safe decibel level (82dB A) or amplifies weak sounds to an audible level.

### Fail-safe mode

External communication and “Level dependent - Situation Awareness”. External radio RX/TX communications are independent of headset battery power, fail safe mode.

In the event of battery depletion or other power failure, external communications will continue to function.

**Slim design**

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

**Situational Awareness**

Level-dependent function for situational awareness and communication

**Detachable Microphone**

Easy to adjust and fit in to place



Gel Ring for more comfort in certain conditions.  
**Learn more on page 49**





3M™ PELTOR™ ComTac™ XPI Headset

# Electronic Level Dependent Hearing Protection



Hearing protection	✓
Detachable microphone	
Level-dependent function for ambient listening	✓
Earplug mode	✓
Automatic power off	✓
Self contained electronics within the headset with power fail safe	✓
Tested according to military standards*	✓
Headband types	
Neckband	
Helmet attachment	
Foldable headband	✓
Battery life	~ 200h**

\* Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461F

\*\* Battery & temperature dependent

3M™ PELTOR™ ComTac™ XPI Headset

# Electronic Level Dependent Headset



Hearing protection	✓
Detachable microphone	✓
Level-dependent function for ambient listening	✓
Earplug mode	✓
Automatic power off	✓
Self contained electronics within the headset with power fail safe	✓
Tested according to military standards*	✓
Headband types	
Neckband	✓
Helmet attachment	✓
Foldable headband	✓
Battery life	~ 200h**

\* Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461F

\*\* Battery & temperature dependent

\*\*\* Not tested according to PPE directive 89/686/EEG

# 3M™ PELTOR™ ComTac™ XPI Headset

## Selection matrix

### Models in green

3M ID / SAP ID	Product Description	Colour	Band Style			Mik typ.				Connector			
			F-Band	Neck-band	P3AD	Bone	Standard	Flex	No Mic	PELTOR J11	NATO J11	Stereo J11	LEMO
XH001680905 7100020111	MT20H682FB-02 ComTac™ XPI	●	●						●				
UU001501087 7100039831	MT20H682FB-19B ComTac™ XPI dubbel leads	●	●					●			●		
UU001501095 7100039854	MT20H682FB-33 ComTac™ XPI curld cable	●	●							●			
UU001501269 7100035866	MT20H682FB-38 ComTac™ XPI Headset	●	●							●			
UU001501053 7100035198	MT20H682BB-38 ComTac™ XPI Headset	●		●						●			
UU001501293 7100049434	*** MT20H682P3AD-38 ComTac™ XPI Headset	●			●					●			
UU001501103 7100039830	MT20H682FB-68 ComTac™ XPI Headset Flex Mic	●	●					●		●			
XH001681002 7100035233	MT20H682FB-69 ComTac™ XPI Bonecond. mic	●	●				●						●
XH001680913 7100020329	MT20H682FB-86 ComTac™ XPI Headset, NATO	●	●								●		
UU001501079 7100039769	MT20H682BB-86 ComTac™ XPI neckband NATO	●		●						●			
XH001681044 7100036591	*** MT20H682P3AD-86 ComTac™ XPI Helmet NATO	●			●					●			
XH001681051 7100035926	MT20H682FB-87 ComTac™ XPI Flex Mic NATO	●	●					●			●		
XH001680897 7100020110	MT20H682FB-88 ComTac™ XPI Headset Stereo	●	●									●	
UU001501848 7100040089	MT20H682FB-89 ComTac™ XPI Selex PRR	●	●					●					●
UU003091899 7100083899	MT20H682FB-90 ComTac™ XPI Selex PRR	●	●										●
UU003026984 7100060447	MT20H682FB-95 ComTac™ XPI Bone mic Stereo	●	●				●					●	
UU007823477 7100096142	MT20H682FB-97 ComTac™ XPI Bone mic J11	●	●				●				●		
UU007823501 7100096175	MT20H682FB-98 ComTac™ XPI Bone mic Nato	●	●				●					●	

\*\*\* Not tested according to PPE directive 89/686/EEG

### Models in black

3M ID / SAP ID	Product Description	Colour	Band Style			Mik typ.				Connector			
			F-Band	Neck-band	P3AD	Bone	Standard	Flex	No Mic	PELTOR J11	NATO J11	Stereo J11	
XH001680988 7100035232	MT20H682FB-02 SV ComTac™ XPI	●	●						●				
UU001501285 7100037410	MT20H682FB-38 SV ComTac™ XPI Headset	●	●					●			●		
UU001501061 7100035924	MT20H682BB-38 SV ComTac™ XPI Headset	●		●						●			
UU001501301 7100039853	*** MT20H682P3AD-38 SV ComTac™ XPI Headset	●			●					●			
UU001501814 7100052605	MT20H682FB-68 SV ComTac™ XPI Headset Flex Mic	●	●					●		●			
XH001681036 7100035925	MT20H682FB-86 SV ComTac™ XPI Headset NATO	●	●								●		
UU009168756 7100148527	MT20H682FB-87 SV ComTac™ XPI Flex Mic NATO	●	●					●			●		

\*\*\* Not tested according to PPE directive 89/686/EEG



3M™ PELTOR™ CH-5 High Attenuation Headset

# Headset Features



## High Attenuation

With new innovative technology and design, the CH-5 headset helps protect against hazardous noise levels and very loud sounds.

## Robust construction

Designed to cope with the rough and extreme environments. For example in and around battle tanks during live firing conditions. Easy to maintain.

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

# Communication headset with high Attenuation

**Stainless Steel Wire Headband**  
Wire headband offers comfortable and consistent pressure



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

**Water tight microphone**  
Dynamic water tight boom microphone (IP68), (6 meters / 30min)

**Hearing Protection**  
Noise attenuating ear cups help provide hearing protection in environments with potentially hazardous noise.

**Cable type**  
Reinforced with fibre thread

Description	3M product code	Reference Id	Attachment
Hearing protector, J11 PELTOR connection	UU008027532 / 7100099845	MT73H450A-38	Headband
Hearing protector, J11 NATO connection	UU008027565 / 7100099883	MT73H450A-86	Headband

### Attenuation tables

MT73H450A-38, MT73H450A-86							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	23.0	28.8	39.7	44.0	37.7	42.7	41.3
Standard deviation (dB)	2.9	1.6	2.5	3.3	2.2	1.7	4.2
Assumed Protection Value (dB)	20.1	27.2	37.2	40.7	35.6	41.0	37.1

According to EN 352-1:2002 \*SNR=37 dB H=38 dB M=36 dB L=28 dB

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

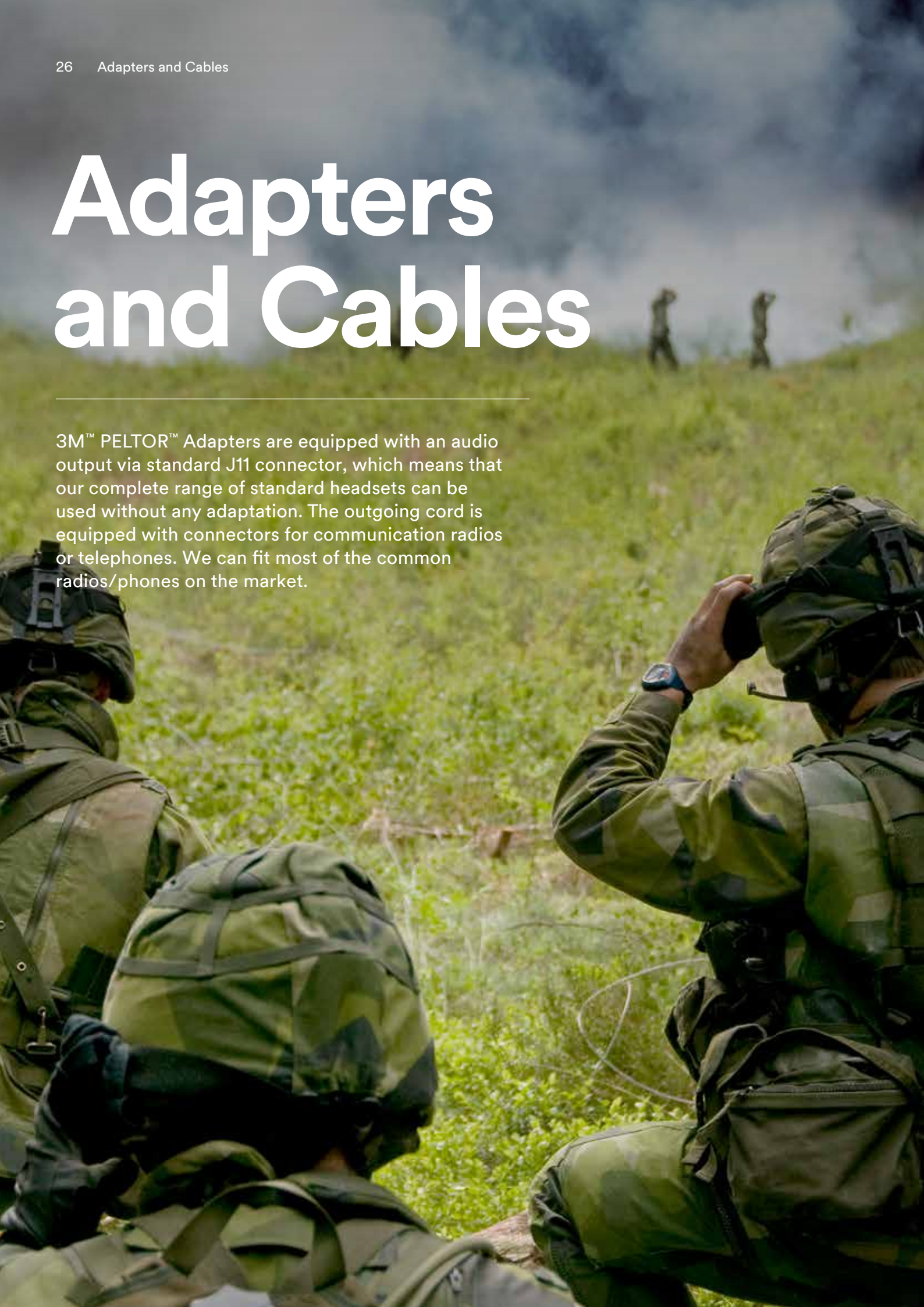
\* Research suggests that many users may receive less noise reduction than indicated by the attenuation value(s) on the packaging, due to variation in fit, fitting skill, and motivation of the user. Refer to your national regulations for guidance on how to adjust label values and estimate attenuation.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



# Adapters and Cables

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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 any adaptation. The outgoing cord is equipped with connectors for communication radios or telephones. We can fit most of the common radios/phones on the market.



## Adapters and Cables

# Features

## Radio Connections

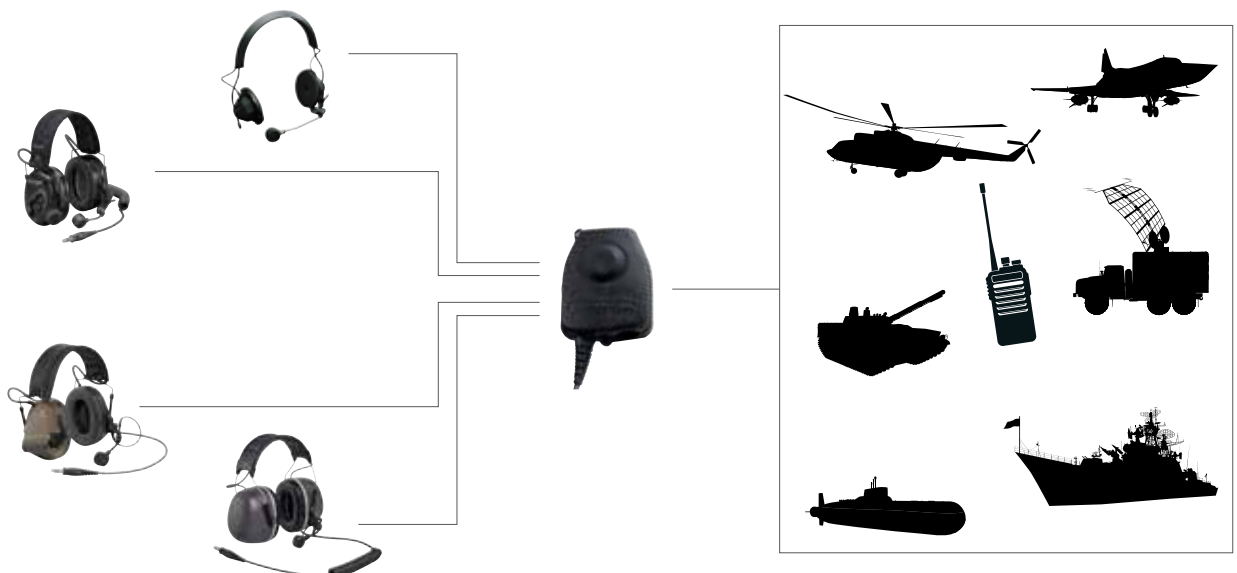
Able to connect various radios and Intercom systems on the market.

## 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.





## 3M™ PELTOR™ Adapter Single PTT FL4000

- Small, strong and easy-to-handle adapter, specially designed for rough environments
- Designed to help protect the electronic components against moisture
- Tested and approved for min. of 100,000 plug-ins
- 360° turnable clip for secure fastening on garments



Extra clips for FL4000



Shroud for FL5000

## 3M™ PELTOR™ Adapter Single PTT FL5000

- Small, strong and easy-to-handle adapter, specially designed for rough environments
- Designed to help protect the electronic components against moisture
- Tested and approved for min. of 100,000 plug-ins
- 360° turnable clip for secure fastening on garments



## 3M™ PELTOR™ Adapter Multi PTT

- Two radios at the same time with the dual radio connectors and PTT button for each radio.



### Military Adapters NATO wired

Description	3M product code	Reference Id
3M™ PELTOR™ PTT-adapter to Motorola GP320/340	XH001678214 / 7000108418	FL5030-02
3M™ PELTOR™ PTT-adapter to Harris Falcon II®, H-250/U	XH001665120 / 7000108190	FL5040-07
3M™ PELTOR™ PTT Adapter to Harris Falcon III®, 7800	XH001678388 / 7000108433	FL5601-100
3M™ PELTOR™ PTT Adapter to RACAL MBITR	7100005674	FL5601-02
3M™ PELTOR™ Small PTT Adapter to Harris Falcon II®, H-250/U	UU003086483 / 7010048629	FL4040-02

### Military Adapter STEREO wired

Description	3M product code	Reference Id
3M™ PELTOR™ Stereo connected PTT for two MBITR radios	XH001673611 / 7000108273	FL5701

### Military Adapters PELTOR wired

Description	3M product code	Reference Id
3M™ PELTOR™ PTT-adapter to RACAL MBITR	XH001654223 / 7000147276	FL5040
3M™ PELTOR™ PTT-adapter to RA145, RA146, RA180	XH001654140 / 7000107876	FL5025
3M™ PELTOR™ PTT-adapter to PR4G	XH001654272 / 7000107882	FL5052
3M™ PELTOR™ Double PTT adapter to PR4G/Astro 5000	XH001677331 / 7000108372	FL5508

### Adapters PELTOR wired FL4000

Description	3M product code	Reference Id
3M™ PELTOR™ PTT-adapter to Motorola GP320/340	UU001512910 / 7100049552	FL4030
3M™ PELTOR™ PTT-adapter to Motorola Mototrbo™ DP3000, DP4000	UU001512936 / 7100049623	FL4063
3M™ PELTOR™ PTT-adapter to Cassidian THR9	UU001631637 / 7100064878	FL40142

### Adapters PELTOR wired FL5000

Description	3M product code	Reference Id
3M™ PELTOR™ PTT-adapter to Nokia TETRA THR880	XH001654249 / 7100009674	FL5042
3M™ PELTOR™ PTT-adapter to Motorola TETRA MTP850	XH001654306 / 7100011659	FL5062
3M™ PELTOR™ PTT-adapter to Motorola Mototrbo™ DP3000, DP4000	XH001654314 / 7000039661	FL5063
3M™ PELTOR™ PTT-adapter to Sepura Tetra STP8000	XH001675269 / 7000108319	FL50101
3M™ PELTOR™ PTT-adapter to Motorola TETRA MTH800		PPN: 16-0003

### Spare parts / Accessories for FL5000 adapters

Description	3M product code	Reference Id
3M™ PELTOR™ Shroud for FL5000	XH001652946 / 7000039651	TKD5502/1
3M™ PELTOR™ Clips for FL50*	XL001636783 / 4100010766	TKD5005
3M™ PELTOR™ Clips for FL5*, THIN	XL001636874 / 4100010765	TKD5011





# Tactical Earplug Solutions

3M™ PELTOR™ Level dependent technology helps provide hearing protection in noise and improves communication in quiet. Protecting hearing and improving situational awareness can help increase personal safety and can 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

# Earplug Features

## Compatibility

3M™ PELTOR™ Tactical Earplug is compatible with most headworn 3M™ Personal Protective Equipment (PPE) such as helmets, hardhats, and face shields

## Comfort

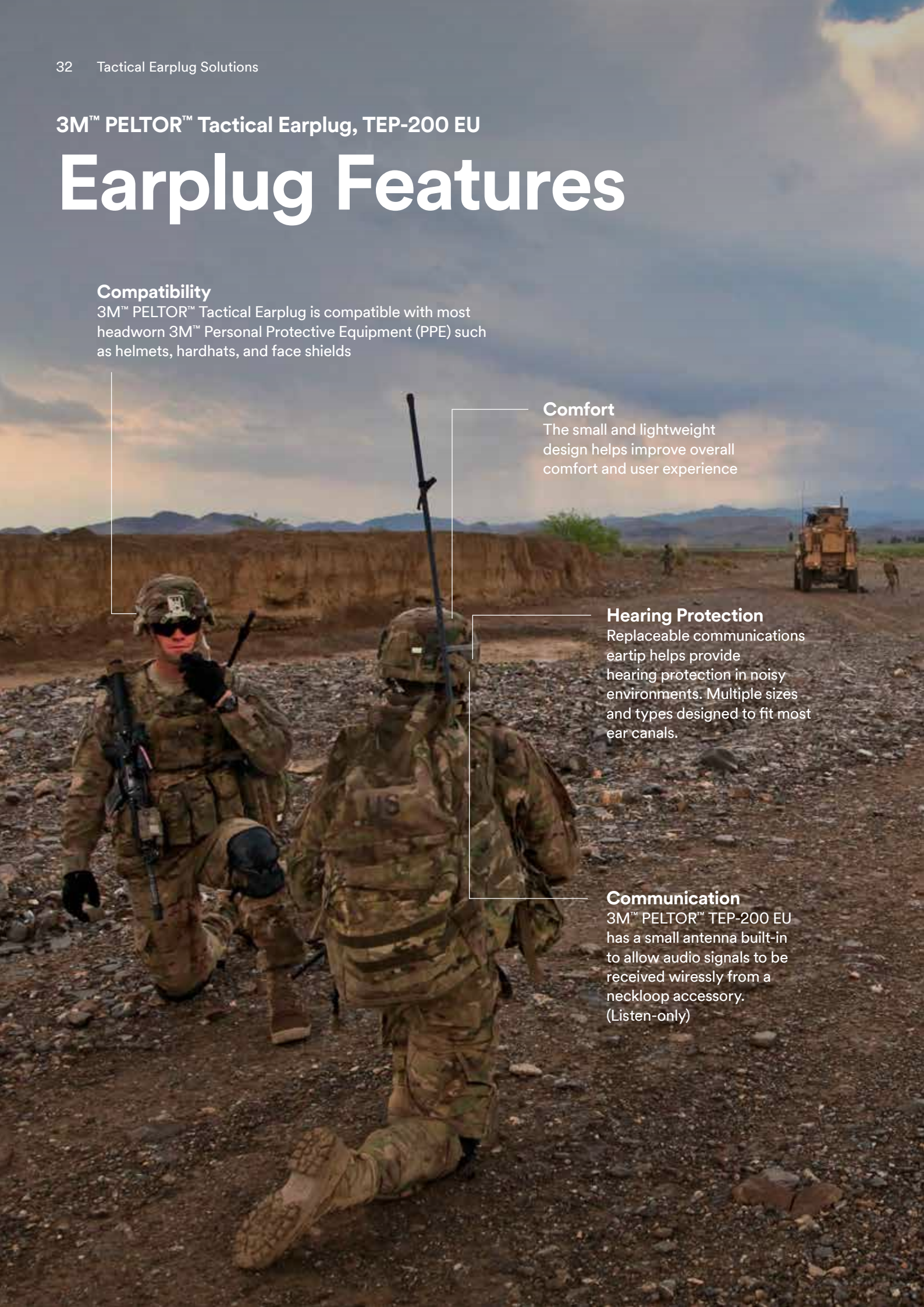
The small and lightweight design helps improve overall comfort and user experience

## Hearing Protection

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

## Communication

3M™ PELTOR™ TEP-200 EU has a small antenna built-in to allow audio signals to be received wirelessly from a neckloop accessory. (Listen-only)





## 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 battery or USB power



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

TEP-LOOP-201 (not incl.)





## Available eartips



3M™ UltraFit™ Eartips  
Small



3M™ UltraFit™ Eartips  
Medium



3M™ UltraFit™ Eartips  
Large



3M™ PELTOR™ CCC-GRM-25 3M™ Torque™ Eartips (available separately)



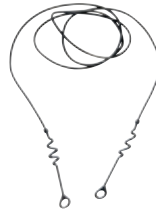
## Accessories



TEP-200E



TEP-100C



TEP-CORD



TEP-LOOP-200



TEP-WINDSCREEN

Description	3M product code	Reference Id
3M™ PELTOR™ Tactical Ear Protection, TEP-200 EU, Kit	70071676996 / 7100141803	TEP-200 EU

## Accessories

Description	3M product code	Reference Id
3M™ PELTOR™ Replacement eartips, Small (25 pair/case)	70071673720 / 7100066371	370-TEPS-25
3M™ PELTOR™ Replacement eartips, Medium (25 pair/case)	70071673738 / 7100066387	370-TEPM-25
3M™ PELTOR™ Replacement eartips, Large (25 pair/case)	70071673746 / 7100066388	370-TEPL-25
3M™ PELTOR™ TORQUE COMM eartips (50 pair/case)	XH001679626 / 7000108492	PELTIP5-01
3M™ PELTOR™ Triple-C Communication Eartips (25 pair/case)	70071675212 / 7100103087	CCC-GRM-25
3M™ PELTOR™ TEP-CORD	70071673795 / 7100074090	TEP-CORD
3M™ PELTOR™ TEP Earplug	70071677051 / 7100066369	TEP-200E
3M™ PELTOR™ TEP Case	70071650264 / 7100066370	TEP-100C
3M™ PELTOR™ Neckloop, 3.5mm plug, Stereo	70071677036 / 7100142485	TEP-LOOP-200
3M™ PELTOR™ Neckloop, 3.5mm plug, Mono	70071730694	TEP-LOOP-201
3M™ PELTOR™ Foam Windscreen for TEP-200 EU,	70071675907 / 7100113748	TEP-WINDSCREEN

## Attenuation tables

Ultrafit™ Eartips							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	34,5	31,5	36,2	33,4	34,8	34,9	38,8
Standard deviation (dB)	6,0	5,4	5,6	4,3	3,8	5,0	4,0
Assumed Protection Value (dB)	28,5	26,1	30,6	29,1	31,0	29,9	34,8

According to EN 352-2:2002 \*SNR=32 dB H=31dB M=30 dB L=29 dB

PELTIP5-01/Torque™ Eartips							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	37,8	36,0	40,5	41,2	41,3	39,6	46,1
Standard deviation (dB)	4,3	5,5	4,2	4,7	3,2	4,3	3,6
Assumed Protection Value (dB)	33,5	30,5	36,3	36,5	38,0	35,3	42,5

According to EN 352-2:2002 \*SNR=38 dB H=37 dB M=36 dB L=34 dB

3M™ CCC-GRM-25 Eartips							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	35,5	32,5	37,1	38,0	37,6	39,5	45,5
Standard deviation (dB)	4,5	4,0	4,4	3,7	2,9	4,6	4,2
Assumed Protection Value (dB)	30,9	28,4	32,7	34,3	34,6	34,9	41,3

According to EN 352-2:2002 \*SNR=36 dB H=35 dB M=34 dB L=32 dB

\* 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.





# Level- dependent Headset Range

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The 3M™ PELTOR™ Level-dependent headset product range includes invaluable tools for people who are subjected to impulse noises.

Level-dependent situational awareness helps protect against harmful noise while letting in and even sometimes amplifying ambient sounds.

THESE HEADSETS ARE NOT INTENDED TO BE USED IN COMBAT SITUATIONS AND DO NOT FIT UNDER A BALLISTIC HELMET.



## 3M™ PELTOR™ SportTac™ Hearing Protection



## 3M™ PELTOR™ Tactical XP Hearing Protection





### 3M™ PELTOR™ SportTac™ Hearing Protection

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ Hunting, shells incl. Green / Orange	XH001650049 / 7100004420	MT16H210F-478-GN	Foldable head band
3M™ PELTOR™ Sport shooting, shells incl. Black / Red	XH001650056 / 7000039607	MT16H210F-478-RD	Foldable head band

### 3M™ PELTOR™ Tactical XP Hearing Protection

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ Tactical XP, Standard	XH001650064 / 7000039608	MT1H7F2	Foldable head band
3M™ PELTOR™ Tactical XP, Headset J11	XH001660717 / 7000039693	MT1H7F2-07	Foldable head band

## Attenuation tables

### 3M™ PELTOR™ SportTac™ Hearing Protection

MT16H210F-*							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	12.1	17.9	27	26.8	30.5	38.3	36.4
Standard deviation (dB)	4.3	3.1	3.8	3.0	3.0	3.7	5.4
Assumed Protection Value (dB)	7.8	14.8	23.2	23.8	27.5	34.6	31

According to EN 352-1:2002 \*SNR=26dB H=29dB M=23dB L=16dB

### 3M™ PELTOR™ Tactical XP Hearing Protection

MT1H7F2*							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13.8	21.5	30.9	36.6	35.9	35.5	39.0
Standard deviation (dB)	1.8	0.9	1.3	1.5	5.5	3.1	2.3
Assumed Protection Value (dB)	12.0	20.6	29.6	35.1	30.4	34.4	36.7

According to EN 352-1:2002 \*SNR=31dB H=32dB M=25dB L=20dB

\* 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™ PELTOR™ LiteCom Plus Headset

- Built-in-two way radio
- Available as 8 channels in the PMR 446 MHz band or 69 channels on the LPD 433 MHz band
- Level-dependent function



## 3M™ PELTOR™ WS™ ProTac XP Headset

- Bluetooth® wireless technology
- Level-dependent function
- DSP (Digital Noise Reduction)
- Advanced VOX (Voice Operated Transmission)



### 3M™ PELTOR™ WS™ ProTac XP Headset

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ WS ProTac XP headband	XH001680012 / 7000147316	MT15H7AWS5	Head band

MT15H7AWS5: \*SNR=31 db H=32 db M=29 db L=22 db

### 3M™ PELTOR™ LiteCom Plus Headset

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ LiteCom Plus, PMR 446	XH001680467 / 7000108543	MT7H7A4410-EU	Head band
3M™ PELTOR™ LiteCom Plus, LPD 433	XH001680491 / 7000108546	MT7H7A4310-EU	Head band

\*SNR=34 db H=35 db M=32 db L=25 db



# Earmuffs & Earplugs

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3M™ PELTOR™ Earmuffs consist of rigid cups with soft plastic cushions that seal around the ears to block noise. 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 30 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
- New 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™ Bullseye I Earmuff

- Sealing rings filled with a unique combination of liquid and foam. The result is an excellent seal with low contact pressure.

### 3M™ PELTOR™ Bullseye I Earmuff

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ Earmuff X3, Black / Red	XA007706915 / 7000103991	X3A	Head band
3M™ PELTOR™ Earmuff X4, Black / Bright Green	XA007706931 / 7000103993	X4A	Head band
3M™ PELTOR™ Earmuff X5 Headband, Grey	XA007706956 / 7000103995	X5A	Head band

### 3M™ PELTOR™ Earmuffs – X Series

Description	3M product code	Reference Id	Attachment
3M™ PELTOR™ Bullseye I	XH001658265 / 7000107973	H515FB-508-GN	Head band

### Attenuation data

#### 3M™ PELTOR™ Earmuff X3

\*SNR=33dB H=35dB M=30dB L=25dB

#### 3M™ PELTOR™ Earmuff X4

SNR=33dB H=36dB M=30dB L=22dB

#### 3M™ PELTOR™ Earmuff X5

\*SNR=37dB H=37dB M=35dB L=27dB

#### 3M™ PELTOR™ Bullseye I Earmuff

SNR=27dB H=32dB M=24dB L=15dB

\* 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™ Combat Arms™ Earplugs – Generation 4.1



- Hear-Through™ Protection
- Specially designed soft retainer helps ensure the earplug remains seated inside the ear canal.
- Rocker switch for easy switching between Closed Mode and Open Mode.
- Available in three sizes for best individual fit
- Offers high attenuation against peak impulse noise – can be used up to 160dB peak
- Easy to wash and clean

This product features a special acoustical filter that lets lower level sound through with relatively little noise reduction for greater situational awareness, and provides increasing amount of peak noise reduction as sound levels increases above 110 dB. This is called the **Open Mode**.

When used in the **Closed Mode** the product acts as a conventional earplug offering protection against steady state and peak impulse noise.

## 3M™ E-A-R™ Combat Arms™ Earplugs



- Single ended
- Helps Protect against high level of peak impulse noise from small arms and artillery weapons fire

## 3M™ E-A-R™ Classic™ Earplugs



Small



Medium



Large

- 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™ Combat Arms™ Earplugs - Generation 4.1

Description	3M product code	Reference Id
3M™ Combat Arms™ 4.1 Small (50 pair/case)	70071675014 / 7100067413	370-1044
3M™ Combat Arms™ 4.1 Medium (50 pair/case)	70071675022 / 7100067414	370-1045
3M™ Combat Arms™ 4.1 Large (50 pair/case)	70071675030 / 7100067411	370-1046

### 3M™ E-A-R™ Combat Arms™ Earplugs

Description	3M product code	Reference Id
3M™ E-A-R™ Skin colour with shorter stem, (250 pair/case)	70071573037 / 7000103986	370-1400

### 3M™ E-A-R™ Classic™ Earplugs

Description	3M product code	Reference Id
3M™ E-A-R™ Classic Amigo, Small (250 pair/case)	GT600000589 / 7000089396	AM-01-000
3M™ E-A-R™ Classic, Medium (250 pair/case)	XA007701882 / 7000038198	PP-01-002
3M™ E-A-R™ SuperFit 36, Large (200 pair/case)	XA007707434 / 7100040145	SF-01-003
2 pair Classic in black box	GT600003120 / 7000089422	BX-01-010

## Attenuation data

### 3M™ Combat Arms™ Earplugs – Generation 4.1

Subjective attenuation in the Closed Mode								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	28.3	27.9	26.8	28.3	27.2	31.5	33.0	39.2
Standard deviation (dB)	5.8	4.3	4.4	3.4	4.0	4.4	2.3	4.9
Assumed Protection Value (dB)	22.5	23.6	22.4	24.9	23.2	27.1	30.7	34.3

According to EN 352-2:2002

\*SNR=28dB H=28dB M=25dB L=24dB

Subjective attenuation in the Open Mode								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	5.7	5.8	7.9	10.1	17.3	23.9	23.3	28.3
Standard deviation (dB)	2.5	2.8	3.1	2.3	2.6	3.4	2.7	5.4
Assumed Protection Value (dB)	3.2	3.0	4.8	7.8	14.7	20.5	20.6	22.9

\*SNR=16dB H=20dB M=12dB L=7dB

#### Peak noise reduction values in the Open Mode

External Peak Sound Level (dB)	110	130	150	170	190
Peak Noise Reduction (dB)	4.8	13.9	17.0	23.5	30.2
Standard Deviation (dB)	1.8	0.4	0.5	0.6	0.7

As determined by the Institute of Saint-Louis (ISL) Laboratory, France.

### 3M™ E-A-R™ Combat Arms™ Earplugs

3M™ E-A-R™ Combat Arms™ Earplugs, single ended								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	3.0	3.5	5.6	10.5	16.6	24.5	27.3	25.6
Standard deviation (dB)	3.5	3.3	2.8	1.7	3.5	2.7	2.8	3.3
Assumed Protection Value (dB)	-0.5	0.2	2.8	8.8	13.1	21.8	24.5	22.3

\*SNR=15dB H=20dB M=11dB L=6dB

#### Peak noise reduction

External Peak Sound Level (dB)	110	130	150	170	190
Peak Noise Reduction (dB)	4.5	12.8	17.1	21.4	24.6
Standard Deviation (dB)	1.3	0.8	0.8	0.3	1.4

### 3M™ E-A-R™ Classic™ Earplugs

3M™ E-A-R™ Classic™ / 3M™ E-A-R™ Classic™ Amigo								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	22.3	23.3	24.6	26.9	27.4	34.1	41.6	40.4
Standard deviation (dB)	5.4	5.3	3.6	5.4	4.8	3.1	3.5	6.4
Assumed Protection Value (dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0

According to EN 352-2:2002

\*SNR=28dB H=30dB M=24dB L=22dB

E-A-R™ Superfit™ 36 Earplugs								
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	29.1	32.4	36.0	38.0	38.9	39.1	43.1	44.6
Standard deviation (dB)	6.2	7.3	7.3	6.8	6.7	3.1	6.1	6.3
Assumed Protection Value (dB)	22.8	25.0	28.7	31.2	32.2	35.9	37.0	38.4

According to EN 352-2:2002

\*SNR=36dB H=36dB, M=33dB, L=30dB

\* 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.



# Spare Parts and Accessories

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The 3M™ PELTOR™ Brand has a range of products so that you can maintain and enhance your product during the products life cycle. If this is done you will get a better throughout the product's lifetime.





**MT33**  
Flexi boom speech microphone



**MT73**  
Standard microphone



**MT90-02**  
Throat microphone (Dynamic)



**MT7N**  
Dynamic Microphone



**HYM1000**  
Micprotector



**M60/2**  
Foam mic cover



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



**M42/1**  
Windshield for dynamic  
microphone



**TEP-Loop 201**  
Magnetic Loop



**1079 SV/SP**  
Battery lid



**P3ADG-F SV/2**  
Rails attachment



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

## Spare Parts and Accessories

Description	3M product code	Reference Id
Flexi boom speech microphone, 130mm cable, Incl. wind shield	UU008163618 / 7100112093	MT33/1
Flexi boom speech microphone, 180mm cable, Incl. wind shield	UU008163642 / 7100112095	MT33-05/1
Standard microphone, 80mm cable	UU008163634 / 7100112094	MT73/1
Throat microphone (Dynamic)	XL001644068 / 7000040037	MT90-02
Dynamic Microphone with J22 plug	XL001634044 / 4100010841	MT7N
Foam mic cover for ComTac 2pc	XH001652532 / 7000039650	M60/2
Windshield for MT73/1, MT33/1 microphone, 2pcs	UU008153483 / 7100112112	M171/2
Windshield MAXI for dynamic microphone, black	XH001659792 / 7000039687	M42/1
Micprotector, 5m, black	XH001651328 / 7100064281	HYM1000
Magnetic loop, 3,5mm mono	70071730694	TEP-LOOP-201
Battery cover for ComTac XP, XPI	UU004894315 / 7100088235	1079 SV/SP
Headset Rail attachments for Military helmets	XL001652723 / 7000108832	P3ADG-F SV/2
Head pad for F-band	UU004894547 / 7100088308	F09/SP



# 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**



**Gel Sealing Rings HY80-EU**  
(for ComTac XPI)  
3M Id: UU003133988 / 7100101182

**Attenuation data**

MT20H682FB-* in combination with HY80-EU							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.1	18.2	26.2	32.2	30.4	29.3	36.7
Standard deviation (dB)	3.4	3.0	2.2	2.5	3.7	3.7	4.0
Assumed Protection Value (dB)	11.7	15.2	24.0	29.7	26.7	25.6	32.7

According to EN352-1:2002

\*SNR=27dB H=27dB M=25dB L=16dB

**Hygiene Kits**



**Hygiene Kit HY21**  
(for SportTac)  
3M Id: XH001659305 / 7000039686



**Hygiene Kit HY51GN**  
(for 3M™ PELTOR™ Bullseye I)  
3M Id: XH001664149 / 7000108176



**Hygiene Kit HY79**  
(for Tactical XP, WS ProTac XP Headset, LiteCom Plus Headset)  
3M Id: XH001651047 / 7100063118



**Hygiene Kit HYX4**  
(for 3M™ PELTOR™ Earmuff X4)  
3M Id: XA007707608 / 7000104048



**Hygiene Kit HYX5**  
(for 3M™ PELTOR™ Earmuff X5)  
3M Id: XA007707616 / 7000104049



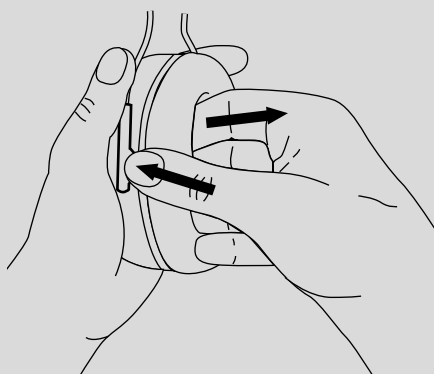
**Hygiene Kit HY68 SV**  
(for ComTac XPI Standard, ComTac XPI Headset)  
3M Id: XH001659461 / 7000108023



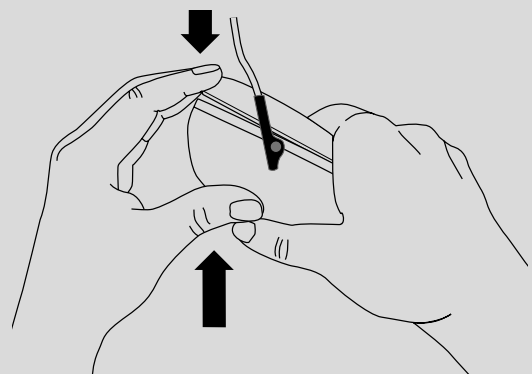
**Hygiene Kit HY45**  
(for CH-5 Headset)  
3M Id: UU008117135 / 7100107408



**Hygiene Kit HY220**  
(for ProTac Hunter / Shooter)  
3M Id: UU008049353 / 7100101874



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.

\* 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.

# Eye Protection

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Besides helping protect your hearing and helping ensure your communication capacity, 3M also offers protective eyewear with advanced optical engineering.

Premium lens technology results in optics with unobstructed field of vision. Due to advanced optical engineering, 3M has developed patented aspherical lens solutions.

3M capabilities in eyewear also include premium coating technology, which is evident in our proprietary 3M™ DX™ Coating, and premium design that make the eyewear attractive and comfortable to wear.





# 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

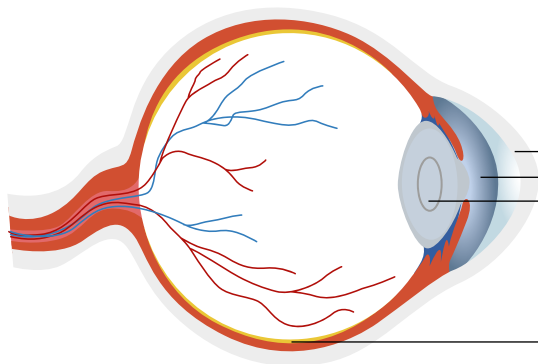
(Light controller), situated in the middle of the iris, works like the diaphragm of a camera. Its diameter changes in accordance with the luminosity.

## 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).

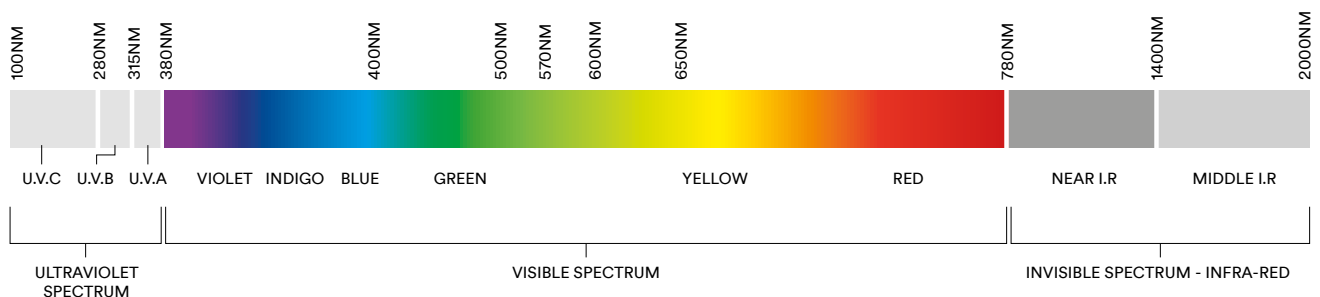
## The Retina

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

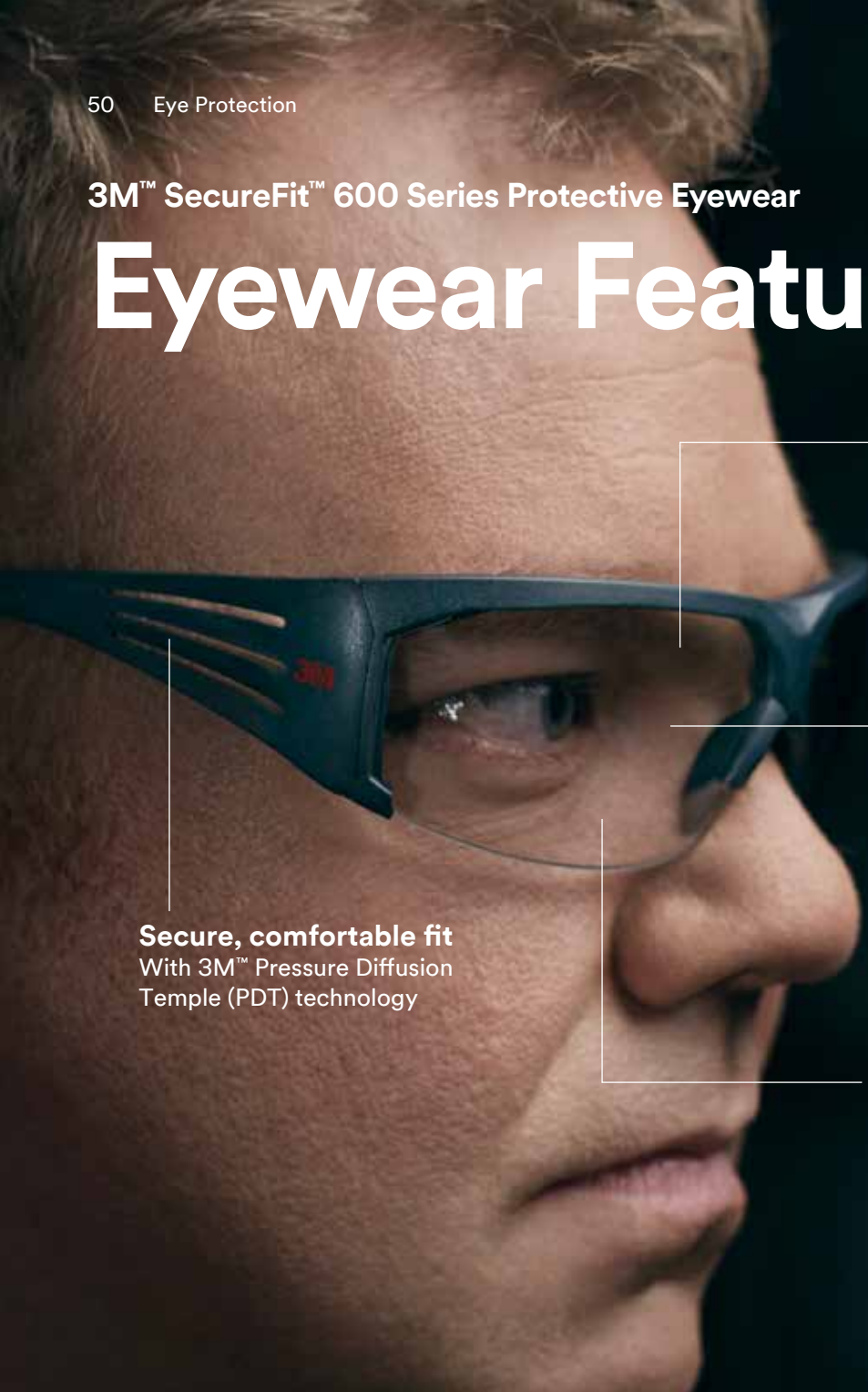
- Mechanical hazards: dust, shock, solid particles.
- Thermal hazards: hot liquid, molten splash, flames.
- Chemical or Biological hazards: splashes for acids, solvents, alkalis, infected blood.
- Radiation hazards: ultraviolet, infrared, visible, light, laser.
- Electrical hazards: direct contact, short-circuit 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™ 600 Series Protective Eyewear

# Eyewear Features



**Secure, comfortable fit**  
With 3M™ Pressure Diffusion Temple (PDT) technology

**Long-lasting clarity**  
3M™ Scotchgard™ Anti-Fog coating resists fogging longer than traditional coatings, even after multiple lens washes

**Durable polycarbonate lenses**  
Absorb 99.9% of UVA and UVB rays and meet the requirements of EN 166:2001

**\*Tested according to STANAG 2920 (Edition 2):**  
3.600mm, 0.325gram Fragment Simulating Projectile (FSP),  
V<sub>50</sub>= 227-237 m/s  
(not listed or certified by QPL/QML program).

Spectacle	Model	3M product code	Reference Id	Lens Marking
	3M™ Scotchgard™ Anti-Fog	7007167830 / 7100112717	*SF601SGAF-EU	2C-1.2 3M 1 FT KN
	3M™ Scotchgard™ Anti-Fog	70071695871 / 7100112716	*SF602SGAF-EU	5-3.1 3M 1 FT KN
	3M™ Scotchgard™ Anti-Fog	70071695889 / 7100112712	*SF603SGAF-EU	2C-1.2 3M 1 FT KN
	Replacement Foam Gasket	70071695954 / 7100112725	SF600FI-EU	

\* Only SF601SGAF, SF602SGAF, SF603SGAF are tested according to STANAG 2920 (Edition 2)



# 3M™ Maxim™ Ballistic TacPack



### Lenses

- Resistance to impact at extreme temperature (marking FT)
- Clear lens for indoor use. VLT = 88%
- Amber lens for low light condition VLT = 88% (cloudy environment) (enhance the contrast and luminosity).
- DX coating anti-fog, anti-scratch, anti-static and anti-chemical attack
- Dark grey lens for outdoor use (sunny condition) VLT = 13%
- All lens colours provide UV-protection according to EN 170 or EN 172, depending on the lens colour.

### Pack content

1x protective hardcase, 1x black microfiber pouch, 1x Spectacle with clear anti-fog lens and straight temples, 1x Replacement elastic black headband, 1x Amber anti-fog replacement lenses, 1x Dark grey anti-fog replacement lenses

### Tested according to

EN166 (impact protection: FT)  
STANAG 2920 (Edition2), V<sub>50</sub> projectile A3/6723/6, 3.6 mm diameter, V<sub>50</sub>=251 m/s (not listed or certified by QPL/QML)

# 3M™ Fahrenheit™ + TacPack



### Base lens: clear dual panel lens

- 2 single lens bonded together with a 2mm space between them to create a lative thermal barrier that keeps the inner lens warm and dry (best anti-fog system possible)
- Resistance to impact at extreme temperature
- UV filtration
- Inner lens: anti-fog coating / Outside lens = anti-scratch
- "clip-on" easy cover lens installation. The lens cover can be installed even in the dark in a few seconds.
- Frame design provides good coverage and good field of vision

### Pack content

1x protective hardcase, 1x soft nylon case to store 2 cover lenses, 1x Goggle with 2 single Clear lens bonded together, 1x Lens cover to protect when not in use, 1x Cover lens with holder, Amber tint ( 2C-1.2 ), 1x Cover lens with holder, Dark Grey tint ( 5-3.1 ), 1x Microfiber cleaning cloth 17,5cm x 17,5cm, washable

### Tested according to

EN166, field of Use 3&4, Impact rating BT  
STANAG 2920 (Edition2), V<sub>50</sub> projectile A3/6723/6, 3.6 mm diameter, V<sub>50</sub>=321 m/s (not listed or certified by QPL/QML)

## 3M™ Maxim™ Ballistic TacPack

Description	3M product code	Reference
3M™ Maxim Ballistic TacPack	UU008277491 / 7100113967	13204-99999M
3M™ Insert for Maxim Ballistic	70071530656 / 7000029972	40719-00000

## 3M™ Fahrenheit™ TacPack

Description	3M product code	Reference
3M™ Fahrenheit™ + TacPack	UU008045039 / 7100102627	71460-99999M



With over 75 years of experience in the life safety product industry, 3M-Scott Safety is the consultative partner of choice-providing holistic solutions to help you meet protection requirements, budgetary constraints and your ultimate goal of protecting and defending your front line. Our broad portfolio of products, combined with our deep understanding of new and emerging technologies, puts us in a unique position to help analyze and predict your changing needs. So we can offer comprehensive solutions that will help extend your capabilities across all lines of development.



# 3M™ Scott Safety CBRN & CIVIL DEFENCE FILTERS

## SCOTT SAFETY CBRN & CIVIL DEFENCE FILTERS

Chemical, Biological, Radiological and Nuclear (CBRN) agents require the highest levels of protection to safeguard against them. The 3M- Scott Safety Military & Civil Defence (M&CD) filter canister range offers a wide choice of filters for specific CBRN, respiratory challenges, providing high quality and cost efficient protection. High specification filter media and materials ensure durability and reliability in CBRN environments, allowing Military and Civil Defence personnel to maintain operational capability worldwide

### CBRN FILTERS

Designed specifically to remediate the lethal effects of Weapons of Mass Destruction (WMDs) and other toxic materials such as Toxic Industrial Chemicals or Materials (TIC's/TIM's) , 3M-Scott Safety offer filtration solutions to encompass the CBRN-HAZMAT threat spectrum. Combining low weight and low breathing resistance, 3M-Scott Safety CBRN filters are manufactured using high performance media, giving extended adsorption capacity for gas and combined filters and high efficiency for the particle hazards. 3M-Scott Safety M&CD filters are fully EN and NIOSH approved to the latest CBRN standards (BS8468-2 & NIOSH 42 CFR84), marked 'R' for re-usable (EN 143:2000/ A1:2006).

### HAZARDOUS MATERIAL (HAZMAT) FILTERS

For Protection against specific Toxic Industrial Chemicals (TICs) or Materials (TIM's), such as radiological materials from nuclear power generation, Scott Safety also offers a range of dedicated Pro2000 filters. Encompassing particulate (e.g. for use against certain biological agents), gas (volatile TIC / TIM capability) and combined filters (Broad Spectrum TIC's / TIM capability) Pro2000 filters are fully EN and NIOSH approved to the latest standards, marked 'R' for re-usable (EN 143:2000/ A1:2006), CE certified, and connect via a 40 mm EN148-1 thread. CE approvals: EN143, EN14387. CE0086.

### SECURITY & POLICING FILTERS

The Scott Security & Policing Filter range are designed for the removal of riot control agents and tear gases including CS, CN and OC pepper spray as well as biological and radiological particles.

### WARNINGS

- 3M-Scott Safety "teardrop" filter are for use on specific 3M-Scott Safety masks only. Filters may not seal with other products, leading to serious injury or death.
- Respirator filters must be selected by a trained and competent person following a suitable and sufficient risk assessment.
- Filters must be used in accordance with appropriate guidelines, regulations or doctrine applied in line with the national legislation of the country of application, inappropriate use could result in injury or death.
- Filters must be stored in accordance with Scott Safety guidance notes.
- The competent person or commanding officer incident must establish a filter change schedule based on a suitable and sufficient risk assessment. Failure to do so may result in filter breakthrough and consequent injury or death. Contact Scott Safety for assistance.
- Filtering respirators are NEVER to be used in oxygen deficient atmospheres (<19.5%) or in poorly ventilated spaces.



For more technical information about 3M™ Scott Safety CBRN masks and filter canisters, please contact your 3M sales representative in your country.

3M™ Scott Safety™

**FRR - FIRST RESPONDER RESPIRATOR**



Low breathing resistances.	✓
Best In Class protection factors for the wearer - significantly higher than the industrial norm.	✓
Vision correction capability that includes the use of progressive (vari-focal) lenses.	✓
Re-breathed CO2 levels significantly below 1%.	✓
Compatible with standard military, law enforcement and industrial DIN 40mm threaded filters able to be mounted on either side of mask for maximum operational flexibility.	✓
Hard coated lens featuring minimal haze and light transmission providing a wide field of view and impact protection in excess of EN166, Class 1 requirements.	✓
Manufactured from chemically hardened materials that have proven comfort characteristics for 24 hour wearing.	✓

Approved to the regulatory standards of: BS 8468-1&2:2006 (CBRN Protection); EN 137:2006, EN 136:1998, Class 3; EN 148-1:1999; AS/NZ 1716:2003



**Face Seal**  
Self-regulating twin primary seals.



**Inline Secondary Filtration**  
'Mask within a mask' system combined with patented secondary filtration technology allows for unrivalled levels of protection and automatic sweat clearance.



**Exhalation Valve**  
Twin exhalation valves provide a clean "airlock".

Description	Article Number	Description	Article Number
FRR MASK ASSEMBLY SIZE 1 (L)	7000342	FRR Rubber Head Harness	7000424
FRR MASK ASSEMBLY SIZE 2 (L/M)	7000343	Net Head Harness	7000415
FRR MASK ASSEMBLY SIZE 3 (M)	7000344	Maintenance Kit Box	7000221
FRR MASK ASSEMBLY SIZE 4 (S)	7000345	Haversack - Black	7000465
FRR MASK ASSEMBLY SIZE 3/2 (Medium mask, large/medium oro-nasal)	7000346	Haversack - MTP	7000284
		FRR MRPS Assembly (incl. Fixed Positive Exhalation Structure, SCBA Adapter)	7000383
		FRR SCBA Adapter (1)	7000689
		FRR-SCBA Key	7000687
<b>GSR/FRR Accesories</b>			
Description	Article Number	<b>GSR/FRR Accesories - Optical</b>	
FRR/GSReS Secondary Filter	7000426	Description	Article Number
FRR/GSRE Louvre Cover	7000475	FRR Vision Correction Mount	7000220
FRR/GSRE Louvre Cover Comms with Blank	7000427	<b>GSR/FRR Accesories - Hydration</b>	
FRR/GSRE Louvre Cover Switchable Short Lever	7000476	Description	Article Number
FRR/GSRE Louvre Cover Switchable Long Lever	7000477	Camelback Hydration Adapter (1)	7000408
FRR/GSRE Louvre Cover Comms Switchable Short Lever with Blank	7000478	58 Pattern Canteen Sub Assembly Adapter (10)	7000218
FRR/GSRE Louvre Cover Comms Switchable Long Lever with Blank	7000479	Source Hydration Adapter (1)	7000409
FRR/GSRE Louvre Cover Switchable Assembly - Short Lever	7000449	NATO Canteen bottle cap adapter (10)	7000778
FRR/GSRE Louvre Cover Switchable Assembly - Long Lever	7000448	<b>GSR/FRR Accesories - Communication</b>	
FRR/GSRE Louvre Cover Switchable Assembly - Short Lever with Comms	7000451	Description	Article Number
FRR/GSRE Louvre Cover Switchable Assembly - Long Lever with Comms	7000450	Voice Projection Unit	7000976
		Dynamic Microphone with 2 Pin PELTOR connector	7000557



3M™ Scott Safety™

# GSRReS - General Service Respirator- Evolution Specialist



Low breathing resistances.	✓
Best in Class protection factors for the wearer- significantly higher than the industrial norm.	✓
Twin filter GSRReS system can be modified without tools in the field to be compatible with Stanag 4155/DIN 40 mm threaded filters allowing filter interoperability.	✓
Provides superior weapon sighting capability utilizing either primary filter option Re-breathed CO2 levels significantly below 1%.	✓
Designed for 100% population fit via multiple sizing combinations between mask and separate oro-nasal module.	✓
Manufactured from chemical hard materials that have proven comfort characteristics for 24 hour wearing.	✓
Meets the heat and flame resistance standards of EN 136.	✓

Tested to and meet the desirable level of the NATO AEP73 standard.



**Filtration**  
High performance filtration technology allows for high protection and low inhalation resistance in a simple to change filter mechanism.



**Inline Secondary Filtration**  
'Mask within a mask' system combined with patented secondary filtration technology allows for unrivalled levels of protection and automatic sweat clearance



**Communications**  
Integration with Respiratory Protection Equipment communication systems ensures full operational capability



**Face Seal**  
Self regulating twin primary seals provide increased protection and comfort for long duration wearing. Built in features enable simple mask / suit hood integration



**Exhalation Valve**  
Twin exhalation valves provide a clean 'airlock'. Ensure leak tight exhalation and low resistance



**Corrective Vision**  
A simple to use corrective vision capability, including progressive lenses, ensures all wearers have a clear view of their operational environment.

Description	Article Number
GSRReS MASK ASSEMBLY SIZE 1 (L)	7000370
GSRReS MASK ASSEMBLY SIZE 2 (L/M)	7000371
GSRReS MASK ASSEMBLY SIZE 3 (M)	7000372
GSRReS MASK ASSEMBLY SIZE 4 (S)	7000373
GSRReS MASK ASSEMBLY SIZE 3/2 (Medium mask, large/medium oro-nasal)	7000374

For more Technical information about 3M™ Scott Safety™ CBRN masks and filter canisters, please contact your 3M sales representative in your country.

3M™ Scott Safety™

# M 95 RESPIRATOR -

## FOR DEFENCE FORCES AND LAW ENFORCEMENT



Low breathing resistances.	✓
Light in weight: The mask weighs only 460g - or 720g with a filter.	✓
Easy and rapid to don and doff - in only 9 seconds.	✓
Protected speech-diaphragm for optimal telecommunication.	✓
The special small-size silicone inner mask reduces the CO <sub>2</sub> - content to a minimum (< 0.45%), thereby reducing fatigue.	✓
Available in two sizes for optimum fit and safety.	✓
Integral drinking tube for the hygienic and convenient intake of liquids, double-threaded connector is compatible with a special M 95 bottle or s-type camelbak adapter.	✓

Approved to the regulatory standards of: BS8468-2:2006 + A1:2007 (CBRN Protection: EN 136:1998, Class 3; EN 148-1:1999)

Description	Article Number
NBC Mask M 95 M, standard size, with drinking device	5012581
NBC Mask M 95 S, small size, with drinking device	5012585
NBC Mask M 95 M/L, standard size, with speech diaphragm, drinking device and bottle	5012584
MASK NBC 95 RIOT M, Standard size, without drinking port	5012583

### M 95 ACCESSORIES

Description	Article Number
Spectacle kit	5012551
Drinking device lid on the mask	5012549
Mouth piece of drinking device	5012547
Bottle complete with cap	5012593
Bottle cap (bottle not included)	5012561
Speech diaphragm	5012565
Hard plastic carrying case	5510185
Green carrying bag for mask and filter	5012595
Protector leak test apparatus	5141080

### Filters

Description	Article Number
CFR32 CBRN CFR32 A2B2E2K2 - P3 (10)	5045155
CFR32 CBRN CFR32 A2B2E2K2 - P3 (20) – 5 year Shelf Life	5543699
CFR32 CBRN CFR32 A2B2E2K2 - P3 (10) – 10 year shelf Life	5543689
CFR22 CBRN CLASS15 P3R (1)	7001159
CFR22 NATO N40 (1)	7001160
CFR22 NBC2200 A1 P3 (20)	5045125
CFR32 REACTORHg P3 (20)	5043679
CBRN Cap 1 (24)	5045135



3M™ Scott Safety™

# M 98 RESPIRATOR - FOR CIVIL DEFENCE AND LAW ENFORCEMENT



Low breathing resistances.	✓
Available in two sizes for optimal fit.	✓
Hypoallergenic elastomer construction.	✓
Slim-line and compact design allows easy integration with police helmets and visors.	✓
Lens fogging is avoided by circulating the inhalation air flow across the visor interior.	✓
Optional hard coated PC visor is available for extra solvent and scratch resistance.	✓
Filter connector accepts 40 mm EN 148-1 and NATO type canister - Optional drinking port is available for the intake of liquids with a special M'95 bottle or a standard PET bottle with 28mm thread.	✓

Approved to the regulatory standards of: BS 8468-2:2006 (CBRN Protection: EN 136:1998, Class 3; EN 148-1:1999).

Description	Article Number
M 98 M with NR harness (EN approved version)	5013010
M 98 S with NR harness (EN approved version)	5013011
M 98 M/L with bottle and NR harness (EN approved version)	5013029
M 98 S with bottle and NR harness (EN approved version)	5013032
M 98 M with textile harness	5013030
M 98 S with textile harness	5013031

## M 98 ACCESSORIES

Description	Article Number
Spectacle kit	5512790
Hydration kit M 98	5012870
Drinking bottle	5012593
HDP polyethylene carrying case	5510185
Textile bag for mask and filter	5012595
Visor PC	5512695
Visor HC PC hard coated	5512795

## Filters

Description	Article Number
CF22 NBC2200 A1P3 Filter (20)	5045125
CFR32 CBRN CFR32 A2B2E2K2 - P3 (20) – 5 year Shelf Life	5543699
CFR32 CBRN CFR32 A2B2E2K2 - P3 (10) – 10 year shelf Life	5543689



For over 50 years, Ceradyne has been a trusted name in nuclear power, oil and gas, solar energy, automotive, defense and other highly technical industries. A wholly owned subsidiary of 3M since 2012, Ceradyne continues to lead the industry in the development and production of advanced ballistic solutions in defense. In land, at sea or in the air, military and law enforcement personnel around the world put their lives on the line every day. And the load they carry is heavy enough. That's why our armor systems are made with advanced materials and unique processing technology to provide an optimal balance of light weight, comfort and resistance to a wide range of threats.



# 3M™ Ballistic Helmets: Lima (L) Series

## Combat II Ballistic Helmet L110

Designed for safety in extreme, high threat situations – such as from small arms (rifle) fire and explosive devices – this helmet leverages 3M scientific expertise to provide protection from high levels of ballistic threats.



### Product Highlights

- Shell is manufactured using advanced Ultra-High Molecular Weight Polyethylene (UHMWPE)
- Helps provide protection from fire arms, blunt impacts, and bomb fragmentation
- Protection from high velocity rifle round threats
- Geometry is similar to the U.S. Army Advanced Combat Helmet (ACH)
- Accommodates gas masks, goggles, and headsets loss of vision or mobility
- Integrated retention and pad systems provide blunt protection, stability and comfort

### Weight

(includes suspension and retention system)

<b>Small</b>	~2.9lbs (1.31kgs)
<b>Medium</b>	~3.0lbs (1.36kgs)
<b>Large</b>	~3.3lbs (1.47kgs)
<b>Extra-Large</b>	~3.9lbs (1.77kgs)

### Ballistic Performance

Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following ballistic resistance\*

Provides protection against select small arms projectiles:

7.62×51mm FMJ (147 gr. NATO M80 ball round)

- V0 @ 2100 ft/sec (640 m/sec)
- V50 @ >2,400 f/s (>731 m/s)

Provides fragmentation protection against 17 grain .22 cal FSP with V50 value >3,281 f/s (>1000 m/s) when tested in accordance to STANAG 2920.

Level IIIA Helmet to NIJ 0108.01 IIIA Ballistic threats:

- 9 mm FMJ - 124 gr – 1400-1450 ft/s (430 m/s) (V0)
- .44 Magnum - 240 gr – 1400-1450 ft/s (430 m/s) (V0)
- 9mm Back Face Deformation (BFD) (9 mm FMJ - 124 gr – 1400-1450 ft/s <25.4 mm)

\*Testing performed at NIJ accredited laboratory

### Blunt Impact Protection

Tested and evaluated with D3O® Trust Pad System to DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04



# 3M™ Ballistic Helmets: Foxtrot (F) Series

## Ballistic Helmet F70

The 3M Ballistic Helmet F70 is flexible for use in multiple threat environments. The F70 is an integrated and comfortable helmet designed for broad use - from Military Missions, Special Forces Operations and Law Enforcement Tactical Operations.

### Product Highlights

- Shell is manufactured with advanced Ultra-High Molecular Weight Polyethylene (UHMWPE)
- Helmet geometry is engineered for improved coverage of critical areas and increased comfort compared to conventional helmets
- Reverse dovetail rails accept common industry accessories
- Retention and pad systems provide excellent protection, stability and comfort
- Suitable for Air Force static line and military free fall operations under the Test Parachute Program (TPP)
- Multiple accessories available including ballistic mandible and visor



### Ballistic Performance

Provides fragmentation protection against 17 grain .22 cal FSP with V50 value >2,760 f/s (>840 m/s) when tested in accordance to STANAG 2920

Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following ballistic resistance\*



Level IIIA Helmet to NIJ 0108.01 IIIA Ballistic threats:

- 9 mm FMJ - 124 gr – 1400-1450 ft/s (430 m/s) (Vø)
- .44 Magnum - 240 gr – 1400-1450 ft/s (430 m/s) (Vø)
- 9mm Back Face Deformation (BFD) (9 mm FMJ - 124 gr – 1400-1450 ft/s <25.4 mm)

\*Testing performed at NIJ accredited laboratory

### Blunt Impact Protection

Tested and evaluated with D3O® Trust Pad System to DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04

		Weight Finished shell weight with paint and trim			
		F70 High Cut	F70 Mid Cut		
 <p>F70 High Cut</p>	<b>Small</b>	~1.52lbs (.69kgs)	~1.75lbs (.79kgs)	 <p>F70 Mid Cut</p>	
	<b>Medium</b>	~1.55lbs (.70kgs)	~1.78lbs (.81kgs)		
	<b>Large</b>	~1.67lbs (.76kgs)	~1.87lbs (.85kgs)		
	<b>Extra-Large</b>	~1.76lbs (.80kgs)	~2.03lbs (.92kgs)		

3M is partnered with D3O® Labs in integrating their shock absorbing, rate sensitive materials with our ballistic solutions.. All helmets that are integrated with D3O® Trust Pad System to are tested and evaluated DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04 (Latest versions).

D3O® materials are made using a combination of advanced polymer chemistry and cuttingedge design. The materials are soft and flexible, with no compromise on comfort, but react differently when force is applied. D3O® absorbs and dissipates energy during an impact, reducing the amount of force transmitted to your body compared to standard foams.





# 3M™ Ballistic Helmets: November (N) Series

## Ultra Light Weight Ballistic Bump Helmet N49

The N49 is a NIJ IIIA Ballistic Helmet starting at a ~1.2lb finished weight (medium), making it one of the lightest ballistic helmets available in the market today.

This special operations helmet is engineered to provide outstanding ballistic and bump head protection – while reducing weight for improved mobility.

### Product Highlights

- Shell is manufactured with advanced Ultra-High Molecular Weight Polyethylene (UHMWPE)
- Composite fiber shell utilizes seamless ballistic molding technology for robust ballistic protection
- 3M's unique geometry to maximize coverage and fit
- Comes standard with NVG shroud & bungee cords
- Comes standard with reverse dovetail slot accessory rail with removable picatinny adapter
- Rail system is mounted to helmet without the need for bolts and no through holes to eliminate risk of bolts becoming secondary projectiles
- Rail provisions for NVG counterweight and O2 respirator



Black



Brown



Green

### Ballistic Performance

Provides fragmentation protection against 17 grain .22 cal FSP with V50 value >2,198 f/s (>670 m/s) when tested in accordance to STANAG 2920

Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following ballistic resistance\*

Level IIIA Helmet to NIJ 0108.01 IIIA Ballistic threats:

- 9 mm FMJ - 124 gr – 1400-1450 ft/s (430 m/s) (V $\emptyset$ )
- .44 Magnum - 240 gr – 1400-1450 ft/s (430 m/s) (V $\emptyset$ )

\*Testing performed at a NIJ accredited laboratory

### Blunt Impact Protection

Tested and evaluated with D3O® Trust Pad System to DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04

### Weight

(Finished shell weight with paint and trim)

Medium	~1.20lbs (0.54kgs)
Large	~1.27lbs (0.58kgs)
Extra-Large	~1.39lbs (0.63kgs)

### Warning

Only qualified and trained operators should use these helmets. Many factors uniquely within the user's knowledge and control can affect the use and performance of the helmet. The user is solely responsible for evaluating the helmet and determining whether the helmet is suitable for user's intended conditions of use. Misuse or failure to follow warnings and user instructions may result in serious personal injury or death.

### Controlled by the US Department of Commerce

Export Control: The Ceradyne product(s) listed here may be controlled commodities under applicable U.S. export control laws and regulations, including, but not limited to, the U.S. International Traffic in Arms Regulations (ITAR) and the Export Administration Regulations (EAR). These laws and regulations may, among other things, prohibit the export and/or reexport of controlled product(s) to any or all locations outside of the United States without prior U.S. Government export authorization, the sharing of export controlled technical data and services with those anywhere who are not U.S. citizens or U.S. permanent residents, dealings with U.S. Government, United Nations and other "Restricted Parties," and proliferation activities including those that further nuclear, chemical, or biological warfare, missile stockpiling/use, or the use of rockets or unmanned aerial vehicle systems. Ceradyne and purchasers or prospective purchasers of the Ceradyne product(s) shall comply with all applicable export control laws and regulations, which may require obtaining and maintaining applicable export control authorization or licenses, and understand that the ability of a party to obtain or maintain such authorization or license is not guaranteed. The exporter of record has the sole responsibility to determine whether the export or subsequent reexport of the Ceradyne product(s) requires export authorization. An explicit condition to Ceradyne selling or making available the Ceradyne product(s) is the customer's agreement to comply with all applicable trade compliance laws and regulations.

For more technical information about 3M™ Ballistic helmets, please contact your 3M sales representative in your country.



# Protection for Maintenance & Repair Operations

3M is dedicated to providing the right personal protection solution 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 protects 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.

# 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 make sure your personnel are getting the protection they need, you need to 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 specific job.



**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.

## The 3M range of solutions for worker safety includes



**Respiratory Protection**



**Head, Eye and Face Protection**



**Fall Protection**



**Protective coveralls**





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