

3M Occupational Health & Environmental Safety Division  
Communication Solutions – Safety distribution

**PELTOR™**

The Sound Solution



Communication  
Solutions

**3M**

## Take your safety personally

3M, the world's leader in safety and protective equipment, is proud to have the Peltor™ brand range as part of its product offering.

Peltor™ communication equipment as well as hearing, head & face protection products for noisy and hazardous environments are renowned world leaders. With more than 50 years of experience, the Peltor™ brand promises superior quality communication solutions that provide an optimal balance of comfort and protection.

It is our goal is to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. With our global technology, manufacturing and knowledge network we do more than simply develop products that help your workforce to operate in safety and comfort. 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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### Protection all the way

Our mission is to help protect people at work, at home, for life.

We believe that health and safety is the priority in any working environment and that greater comfort improves worker protection, resulting in enhanced productivity and safety compliance. In addition to protecting people, our ambition is to protect the environment as well. It is, therefore, our declared goal to develop and use safe products that have the least possible impact on people, the environment and the workplace.

### Long lasting innovations

To deliver on our commitment requires a culture of accountability, customer inspired innovation, knowledge and expertise, fuelled by a deep understanding of our customer needs. The Peltor™ brand, trusted as a leader in hearing, eye and head & face protection, offers a comprehensive portfolio of hearing protectors paired with communication systems.

### Working together

3M is more than just products. We work closely with distributors, safety professionals and companies to protect employees exposed to hazardous environments. With offices around the world, 3M can help our customers succeed everywhere.

### Partnership in safety

Many renowned companies have chosen Peltor™ products for optimum safety at work. With customised printing, embossing and other solutions, our products can also help enhance the value of your brand.



# Contents

## HIGH ATTENUATION HEADSET

3M™ Peltor™ Standard Flex headset	7
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## TACTICAL PLATFORM

3M™ Peltor™ ProTac	9
🔊 3M™ Peltor™ WS™ ProTac	10
3M™ Peltor™ Tactical XP	11
3M™ Peltor™ Tactical XP flex headset	12
🔊 3M™ Peltor™ WS™ Tactical XP	14
🔊 3M™ Peltor™ WS™ Workstyle	15

## FM/AM RADIO PLATFORM

3M™ Peltor™ FM-Radio	19
3M™ Peltor™ Radio XP	20
3M™ Peltor™ Alert	21
3M™ Peltor™ Alert Flex Headset	22
🔊 3M™ Peltor™ WS™ Alert	23

## LITE-COM PLATFORM

3M™ Peltor™ Lite-Com™ Basic	25
🔊 3M™ Peltor™ WS™ Lite-Com™	27

## ACCESSORIES

Flex Cables	29
Hygiene Kits	29
Battery Pack and Charger	29



# Smart Solutions Easy Communication

## The Sound Solution

### First-class communication – despite hearing protectors!

There was a time when wearing hearing protectors meant being isolated and out of contact. Those days are over. Today, Peltor offers first-class communication solutions that not only make your working day safer and more efficient, but also much nicer!

### Close up or far away

The 3M™ Peltor™ communication solution for noisy environments makes it possible for users of hearing protectors to communicate very effectively – with their immediate environment and with people further away.

Communication with people around you involves our active-volume function and intercom systems. For longer distances, you have communication radios, DECT and mobile phones. All communication options can also be combined with a sound system such as an FM radio. Feel free to contact us for suggestions for a solution that meets your specific needs.

### Versatility

3M™ Peltor™ products are developed for all environments where high safety must be combined with communication. Shop and industrial environments, construction sites, agriculture and forestry are a few examples.

We have developed several models to ensure there's a Peltor Headset for every situation. Headband models for all-round use, and models with helmet attachment for people who wear hardhats at work.

To ensure easy use of our products and good functions for all environments we use advance technology such as DECT and Bluetooth™.

# More about Hearing

## How does sound occur

Sound is created when the air is subjected to a disturbance – both the vibrations from vocal cords and the pounding of a stamping machine create sound waves. The waves are transmitted through the air and captured by the eardrum, from which they move into the cochlea in the inner ear, which contains hair cells with tiny cilia. The cilia move when the sound waves reach them, and that movement is translated into nerve impulses, which are transmitted to the brain. The waves become sound.

## Hearing

The frequency range of the human hearing is about 20 to 20 000 Hz. However, most people do not hear frequencies up to 20 000 Hz due to the natural aging of hearing or due to for example noise exposure. The most important frequency range for speech perception is limited to about 125 to 8000 Hz.

The dynamics of the hearing covers the range from about 0 dB to about 140 dB. This dynamic range is dependent on the frequency and largest around 4 000 Hz. The frequency range for speech is also the range where the dynamics of the hearing is the best.

## Exposure to noise

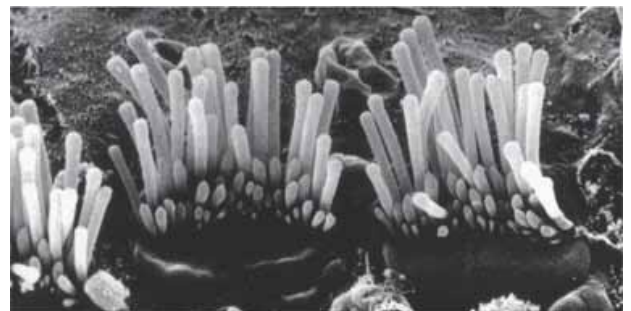
Noise is usually defined as unwanted sound. Noise exposure may result in different effects on exposed persons depending on the noise level. Low level noise mainly induces speech interference or annoyance. At higher noise levels these effects increase, and in addition physiological effects may appear as well as effects on hearing in terms of hearing loss and/or tinnitus.

The level of the noise that might induce hearing loss depends on the duration of the exposure. Based on a dose-effect assumption the critical level for noise-induced hearing loss is set to 85 dB(A) during 8 hours per day.

## Hearing impairment

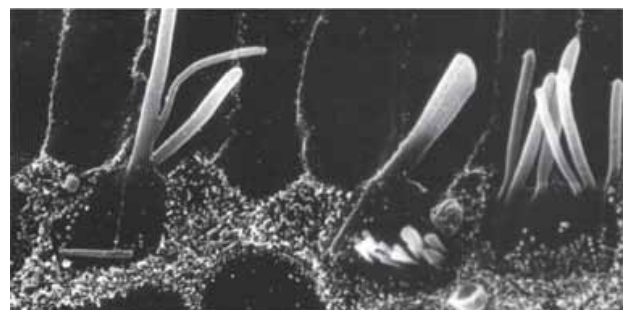
The sense of hearing can be impaired in different ways. Damage to hair cells more commonly affects outer hair cells, more so than inner hair cells. Typical damage to the hair cells includes stereocilia fracture, the actin filaments can become depolymerised, the tiplinks can break, the stereocilia may become detached and the cuticular plate may eject from the hair cell. Over the long term, the hair cells can degenerate completely.

Loss of outer hair cells reduces the ability to detect low level sounds, since the active amplification of motion of the tectorial membrane is reduced. The dynamic range of the auditory system will be reduced and the frequency selectivity impaired. The basally located outer hair cells are more sensitive than apically located, resulting in high frequency hearing loss dominating. If the inner hair cells are damaged the sensory function will be reduce.



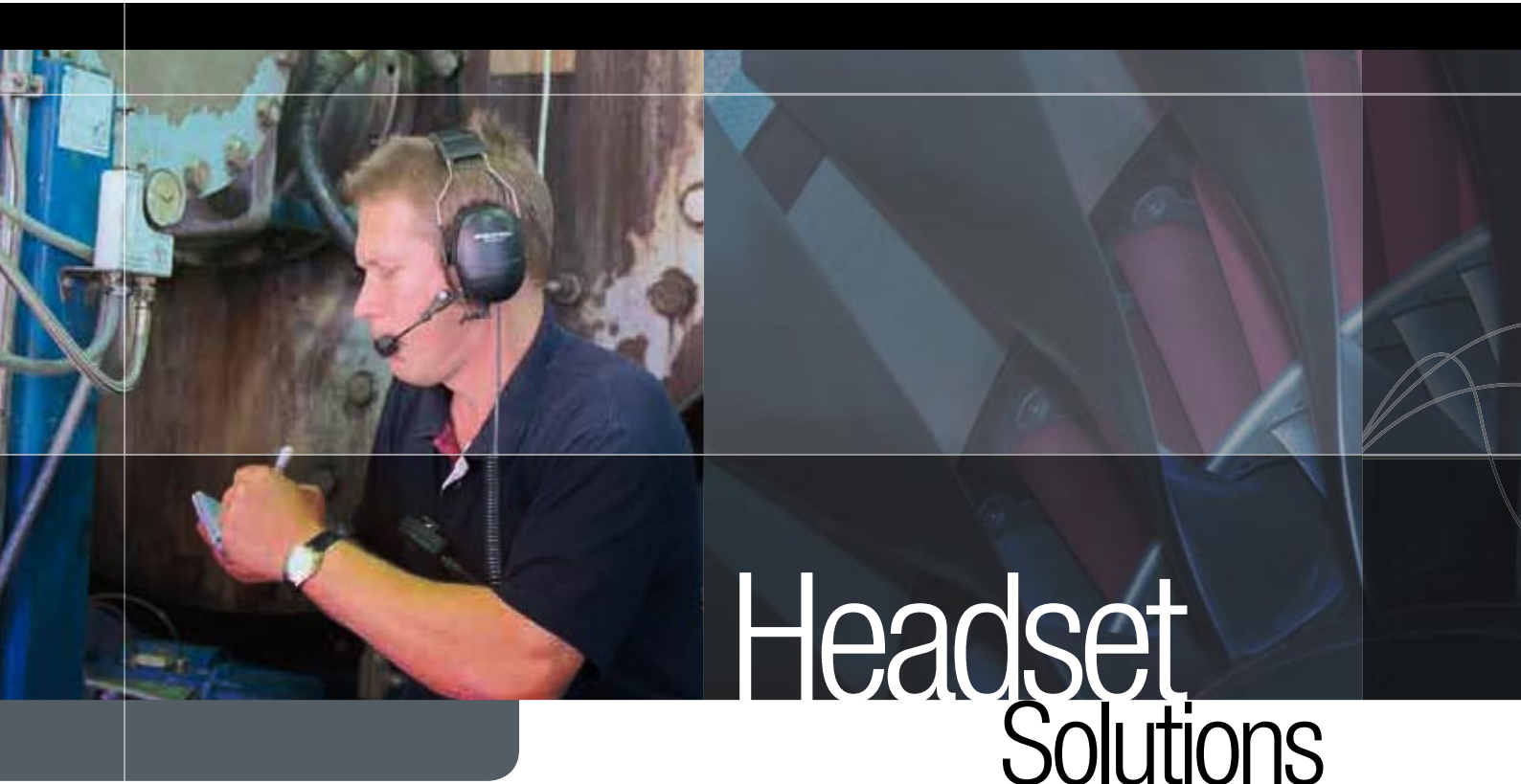
### Normal, uninjured ear

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.



# Headset Solutions

With its carefully designed microphone/speaker system and excellent attenuation, the 3M™ Peltor™ Headset range offers acoustic performance providing communication in very high noise environments.

3M™ Peltor™'s proven and durable designs ensure high comfort levels, allowing long term use under very tough conditions.

# 3M™ Peltor™ Headset Solutions



## 3M™ Peltor™ High Attenuation, Standard Flex Headset

MT53H79A-77, MT53H79P3E-77



MT53H79A-77

- High attenuating hearing protector
- Noise cancelling speech microphone
- Standard chassis jack for connecting a flex cable
- Push To Talk (PTT) on cup
- Flex cables available for connecting a variety communication radios and mobile phones. See cables & accessories section

### Testing and approval

PPE 89/686/EEC

EMC 2004/108/EC

### Description

Standard flex headset

Standard flex headset

### 3M ID.No

XH001661137

XH001661301

### Product code

MT53H79A-77

MT53H79P3E-77

### Attachment

Head band

Helmet att.

### Colour

Black

Black

### MT53H79A-77

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.7	27.1	33.8	38.1	36.2	33.6	37.1
Standard Deviation (dB)	2.9	2.1	2.4	2.6	2.3	2.5	2.2
Assumed Protection (dB)	14.8	25	31.4	35.5	33.9	31.1	34.9

SNR=33dB H=33dB M=32dB L=24dB

### MT53H79P3E-77

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.2	26.4	33.9	37.2	35.4	33.2	37
Standard Deviation (dB)	3.1	2.5	2.7	2.3	2.6	2.4	2
Assumed Protection (dB)	14.1	23.9	31.2	34.9	32.8	30.8	35

SNR=32dB H=33dB M=31dB L=23dB



# Tactical Solutions

3M™ Peltor™ Tactical™ products are invaluable tools for people who are subjected to impulse noises. The active-volume function lets you hear ambient noises, such as conversations, machine sounds, warning signals etc. Soft sounds are amplified, so you hear them even better than you would without hearing protectors.

These products are well-suited and often used by militaries, hunters & shooters as well as industrial users.





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## 3M™ Peltor™ Pro-Tac™ II Electronic Level Dependent Hearing Protector



- High attenuating hearing protector
- Level Dependent Function
- 2x AA batteries inc.
- Warning signal when power is low
- Three colour options: green, red, black
- Automatic shut-off after two hours if no function is used
- Audio input jack for external radio
- Available with headband, neckband or helmet attachment

### Testing and approval

PPE 89/686/EEC

EMC 2004/108/EC

MT15H7A2 GN

Description	3M ID.NO	Product code	Attachment	Colour
Standard	XH001650015	MT15H7A2 GN	Head band	Green
Standard	XH001650023	MT15H7A2 RD	Head band	Red
Standard	XH001650031	MT15H7A2 SV	Head band	Black
Standard	XH001660469	MT15H7P3E2 SV	Helmet attachment	Black
Standard	XH001660451	MT15H7B2 SV	Neck band	Black

### MT15H7A2 \*\* \*\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13,8	21,5	30,9	36,6	36,6	35,5	39,0
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20 dB

### MT15H7P3\*2 \*\* \*\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.0	22.4	28.1	33.8	33.4	35.4	38.7
Standard Deviation (dB)	1.5	2.7	1.7	2.3	2.6	2.3	1.8
Assumed Protection (dB)	12.5	19.7	26.4	31.5	30.8	33.1	36.9

SNR=30dB H=33dB M=28dB L=20dB

### MT15H7B2 \*\* \*\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13,8	21,5	30,9	36,6	36,6	35,5	39,0
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20 dB



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## 3M™ Peltor™ WS™ Pro-Tac™ II Bluetooth® Headset

Electronic Level Dependent Hearing Protector



MT15H7A2WS4



- Bluetooth A2DP profile
- Noise cancelling speech microphone
- High attenuating hearing protector
- Level Dependent Function
- 2x AA batteries inc.
- Warning signal when power is low
- Automatic shut-off after two hours if no function is used
- Available with headband or helmet attachment

### Testing and approval

PPE 89/686/EEC  
EMC 1999/5/EC

#### Description

WS Headset (Bluetooth™)  
WS Headset (Bluetooth™)

#### 3M ID.No

XH001660444  
XH001660493

#### Product code

MT15H7A2WS4  
MT15H7P3E2WS4

#### Attachment

Head band  
Helmet Attachment

#### Colour

Black  
Black

#### MT15H7A2 \*\* \*\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13,8	21,5	30,9	36,6	36,6	35,5	39,0
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20 dB

#### MT15H7P3\*2 \*\* \*\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.0	22.4	28.1	33.8	33.4	35.4	38.7
Standard Deviation (dB)	1.5	2.7	1.7	2.3	2.6	2.3	1.8
Assumed Protection (dB)	12.5	19.7	26.4	31.5	30.8	33.1	36.9

SNR=30dB H=33dB M=28dB L=20dB



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# 3M™ Peltor™ Tactical™ XP

## Electronic Level Dependent Hearing Protector



MT1H7F2

- High attenuating hearing protector
- Level Dependent Function
- Extra functions: EQ, balance, release time, external volume etc
- Exclusive leather head pad
- Electronic voice guided menu system
- Warning signal when power is low
- Last settings stored when switched off
- 2x AA batteries inc.
- Available as ATEX/Ex (intrinsically safe) approved

### Testing and approval

PPE 89/686/EEC

EMC 89/336/EEC

Description	3M ID.No	Product code	Attachment	Colour
Standard	XH001650064	MT1H7F2	Foldable head band	Black
Standard	GT600013889	MT1H7P3E2	Helmet attachment	Black
Standard	XH001660667	MT1H7B2	Neck band	Black
EX	XH001660741	MT1H7F2-50	Foldable head band	Blue
EX	XH001660808	MT1H7P3E2-50	Helmet attachment	Blue

### 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
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20 dB

### MT1H7B2

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 (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT1H7P3\*2

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,5	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30 H=33 M=28 L=20



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## 3M™ Peltor™ Tactical™ XP Flex Headset

Electronic Level Dependent Hearing Protector



MT1H7F2-77

- Standard chassis jack for connecting a flex cable
- Push To Talk (PTT) on cup
- Flex cables available for connecting a variety communication radios and mobile phones. See cables & accessories section
- Noise cancelling microphone
- High attenuating hearing protector
- Level Dependent Function
- Extra functions: EQ, balance, release time, external volume etc
- Exclusive leather head pad
- Electronic voice guided menu system
- Warning signal when power is low
- Last settings stored when switched off
- 2x AA batteries inc

### Description

Flex headset  
Flex headset  
Flex headset

### 3M ID.No

XH001660758  
XH001660816  
XH001660709

### Product code

MT1H7F2-77  
MT1H7P3E2-77  
MT1H7B2-77

### Attachment

Foldable head band  
Helmet attachment  
Neck band

### Colour

Black  
Black  
Black

### 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
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20 dB

### MT1H7B2

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 (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT1H7P3\*2

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,5	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30 H=33 M=28 L=20





PELTOR™

## 3M™ Peltor™ WS™ Tactical™ XP

Electronic Level Dependent Bluetooth Headset



MT1H7F2WS3

- Bluetooth (no A2DP profile)
- Noise cancelling microphone
- High attenuating hearing protector
- Level Dependent Function
- Extra functions: EQ, balance, release time, external volume etc
- Exclusive leather head pad
- Electronic voice guided menu system
- Warning signal when power is low
- Last settings stored when switched off
- 2x AA batteries inc.

### Testing and approval

PPE 89/686/EEC

EMC 1999/5/EC

Description	3M ID.No	Product code	Attachment	Colour
WS headset, Bluetooth™	XH001653076	MT1H7F2WS3	Foldable head band	Black
WS headset, Bluetooth™	XH001653084	MT1H7P3E2WS3	Helmet attachment	Black
WS headset, Bluetooth™	XH001653068	MT1H7B2WS3	Neck band	Black

### 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
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT1H7B2

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 (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT1H7P3\*2

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,5	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30dB H=33dB M=28dB L=20dB



**PELTOR™**

# 3M™ Peltor™ WS™ Workstyle™

## Electronic Level Dependent Hearing Protector



MT16H21FWS5EM580SV

- Bluetooth A2DP - Wireless calls and music
- High attenuating hearing protector
- Patented speaker system specifically designed to produce a full-bodied, dynamic sound in an enclosed headset
- Comes with charger
- Bluetooth sound limiter & dosimeter
- Built in microphone
- Comes with noise cancelling boom microphone
- Level Dependent Function
- Extra functions: EQ etc
- Electronic voice guided menu system
- Operating time approximately 12 hours full streaming
- Warning signal when power is low
- Last settings stored when switched off
- 2x AAA rechargeable batteries inc.

### Testing and approval

PPE 89/686/EEC

EMC 1999/5/EC

#### Description

Bluetooth headset EU

#### 3M ID.No

XH001678248

#### Product code

MT16H21FWS5EM580SV

#### Attachment

Foldable head band

#### Colour

Black

### MT16H21FWS5\*-\*\*\*\*\*

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	15.1	11.1	18.2	27.0	23.8	33.4	37.7	38.8
Std deviation (dB)	3.8	2.6	2.3	2.2	2.1	3.6	2.2	3.3
Assumed Protection Value (dB)	11.4	8.5	15.9	24.8	21.7	29.8	35.5	35.5

SNR=26 db H=29 db M=23 db L=17 db









# Workstyle Solutions

With one of the products from the Peltor™ Workstyle Solutions range, you can both protect your hearing effectively and at the same time enjoy listening to the radio while working. Some models can even be connected to a telephone or communication radio, making you accessible wherever you are.



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## 3M™ Peltor™ Radio Hearing Protector



- High attenuating hearing protector
- FM-radio receiver
- Operating time approximately 140 hours
- 2x AA batteries inc.
- 3,5mm stereo input jack
- Radio circuit: 1G

### Testing and approval

PPE 89/686/EEC

EMC 2004/108/EC

HRXS7A-01

Description	3M ID.No	Product code	Attachment	Colour
FM-radio	XH001673892	HRXS7A-01	Head band	Red
FM-radio	XH001673918	HRXS7P3E-01	Helmet att.	Red

### HRXS7A-01

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5

SNR=32dB H=32dB M=31dB L=23dB

### HRXS7P3E-01

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16,5	22,0	31,6	33,8	31,1	33,5	35,4
Standard Deviation (dB)	5,5	3,7	4,6	4,0	2,8	1,6	3,3
Assumed Protection (dB)	11,0	18,3	27,0	29,8	28,3	31,9	32,1

SNR=29dB H=30dB M=27dB L=19dB



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## 3M™ Peltor™ Radio XP Hearing Protector

### Electronic FM/AM-Radio



HRXP7A-01

- High attenuating hearing protector
- FM-radio receiver
- Operating time approximately 70 hours
- 2x AA batteries inc.
- 3,5mm stereo input jack
- Radio circuit: 2G
- **Rechargeable battery pack and charger (EU) included**



ACK03

FR03-EU

#### Testing and approval

PPE 89/686/EEC  
EMC 2004/108/EC

#### Description

FM-radio  
FM-radio

#### 3M ID.No

XH001678735  
XH001678743

#### Product code

HRXP7A-01  
HRXP7P3E-01

#### Attachment

Head band  
Helmet att.

#### Colour

Black  
Black

#### HRXP7A-01

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5

SNR=32dB H=32dB M=31dB L=23dB

#### HRXP7P3E-01

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16,5	22,0	31,6	33,8	31,1	33,5	35,4
Standard Deviation (dB)	5,5	3,7	4,6	4,0	2,8	1,6	3,3
Assumed Protection (dB)	11,0	18,3	27,0	29,8	28,3	31,9	32,1

SNR=29dB H=30dB M=27dB L=19dB



**PELTOR™**

# 3M™ Peltor™ Alert Hearing Protector

Electronic Level Dependent FM/AM-Radio



M2RX7A

- High attenuating hearing protector
- FM/AM-radio receiver
- Level dependent function
- Operating time approximately 70 hours
- 2x AA batteries
- Radio circuit:2G

### Testing and approval

PPE 89/686/EEC

EMC 2004/108/EC

### Description

Alert

Alert

### 3M ID.No

XH001650007

XH001675475

### Product code

M2RX7A

M2RX7P3E

### Attachment

Head band

Helmet att.

### Colour

Red

Red

### M2RX7A

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5

SNR=32dB H=32dB M=31dB L=23dB

### M2RX7P3E

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	22.0	31.6	33.8	31.1	33.5	35.4
Standard Deviation (dB)	5.5	3.7	4.6	4.0	2.8	1.6	3.3
Assumed Protection (dB)	11.0	18.3	27.0	29.8	28.3	31.9	32.1

SNR=29dB H=30dB M=27dB L=19dB



**PELTOR™**

## 3M™ Peltor™ Alert Flex Headset

Electronic Level Dependent FM/AM-Radio



M2RX7A

- Standard chassis jack for connecting a flex cable
- Push To Talk(PTT) on cup
- Flex cables available for connecting a variety communication radios and mobile phones. See cables & accessories section
- High attenuating hearing protector
- FM/AM-radio receiver
- Level dependent function
- Operating time approximately 70 hours
- 2x AA batteries
- Radio circuit:2G

### Testing and approval

PPE 89/686/EEC  
EMC 2004/108/EC

### Description

Alert Flex headset  
Alert Flex headset

### 3M ID.No

XH001659735  
XH001659768

### Product code

M2RX7A-77  
M2RX7P3E-77

### Attachment

Head band  
Helmet attachment

### Colour

Red  
Red

### M2RX7A-77

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5

SNR=32dB H=32dB M=31dB L=23dB

### M2RX7P3E-77

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	22.0	31.6	33.8	31.1	33.5	35.4
Standard Deviation (dB)	5.5	3.7	4.6	4.0	2.8	1.6	3.3
Assumed Protection (dB)	11.0	18.3	27.0	29.8	28.3	31.9	32.1

SNR=29dB H=30dB M=27dB L=19dB



**PELTOR™**

# 3M™ Peltor™ WS™ Alert Headset

Electronic Level Dependent FM/AM-Radio Bluetooth® Headset

 Now with Stereo Streaming Bluetooth® (A2DP)

- Bluetooth A2DP
- Noise cancelling speech microphone
- High attenuating hearing protector
- FM/AM-radio receiver
- Level dependent function
- Operating time approximately 33/40 hours
- 2x AA batteries inc.
- Radio circuit:2G

**Testing and approval**

PPE 89/686/EEC

R&TTE 1999/5/EC



M2RX7AWS4

**Description**

Alert Bluetooth® Headset

Alert Bluetooth® Headset

**3M ID.No**

XH001650924

XH001659784

**Product code**

M2RX7AWS4

M2RX7P3EWS4

**Attachment**

Head band

Helmet attachment

**Colour**

Red

Red

**M2RX7AWS4**

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5

SNR=32dB H=32dB M=31dB L=23dB

**M2RX7P3EWS4**

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	22.0	31.6	33.8	31.1	33.5	35.4
Standard Deviation (dB)	5.5	3.7	4.6	4.0	2.8	1.6	3.3
Assumed Protection (dB)	11.0	18.3	27.0	29.8	28.3	31.9	32.1

SNR=29dB H=30dB M=27dB L=19dB



# Lite-Com™ Solutions

3M™ Peltor™ Lite-Com™ solutions is a range of products with a built-in communication radio in the cup. The system provides effective and effortless short-range two-way communication.



# 3M™ Peltor™ Lite-Com Solutions



PELTOR™

## 3M™ Peltor™ Lite-Com™ Basic Headset with Built-in Two-way Communication Radio



MT53H7A4400

- High attenuating hearing protector
- Wireless two-way communication headset
- Operating distance: up to 2000 meters, line of sight
- PMR: 446.000 – 446.100 MHz, 8 channels (+38 sub)
- “hands-free” VOX operation.
- Electronic voice guided menu system
- 2x AA batteries inc.
- Channel steps: 12.5 kHz
- Deviation: Max.  $\pm$  2.5 kHz
- Output: 150/25 mW ERP
- Traffic method: Simplex

### Testing and approval

PPE 89/686/EEC  
R&TTE 1999/5/EC

Description	3M ID. No	Product code	Attachment	Colour
PMR 446 MHz	XH001650965	MT53H7A4400	Head band	Dark blue
PMR 446 MHz	XH001650973	MT53H7P3E4400	Helmet attachment	Dark blue
PMR 446 MHz	XH001653134	MT53H7B4400	Neck band	Dark blue

### MT53H7A4400

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
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT53H7B4400

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 (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT53H7P3E4400

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,5	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30dB H=33dB M=28dB L=20dB





**PELTOR™**

# 3M™ Peltor™ WS™ Lite-Com™

## Headset with Built-in, Programmable Two-way Communication Radio



MT53H7A4400WS5

- High attenuating hearing protector
- Level dependent function
- Bluetooth (A2DP)
- Wireless two-way communication headset
- Operating distance: up to 2000 meters, line of sight
- PMR: 446.000 – 446.100 MHz, 8 channels (+38 sub)
- “hands-free” VOX operation.
- Electronic voice guided menu system
- 2x AA batteries inc.
- Channel steps: 12.5 kHz
- Deviation: Max.  $\pm$  2.5 kHz
- Output: 25/200 mW
- Traffic method: Simplex

### Testing and approval

PPE 89/686/EEC

R&TTE 1999/5/EC

#### Product code

MT53H7A4410WS5

MT53H7B4410WS5

MT53H7P3E4410WS5

#### 3M ID. No

XH001677026

XH001677034

XH001677042

#### Attachment

head band

neck band

Helmet attachment

#### Colour

Dark blue

Dark blue

Dark blue

### MT53H7A4410WS5

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
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT53H7B4410WS5

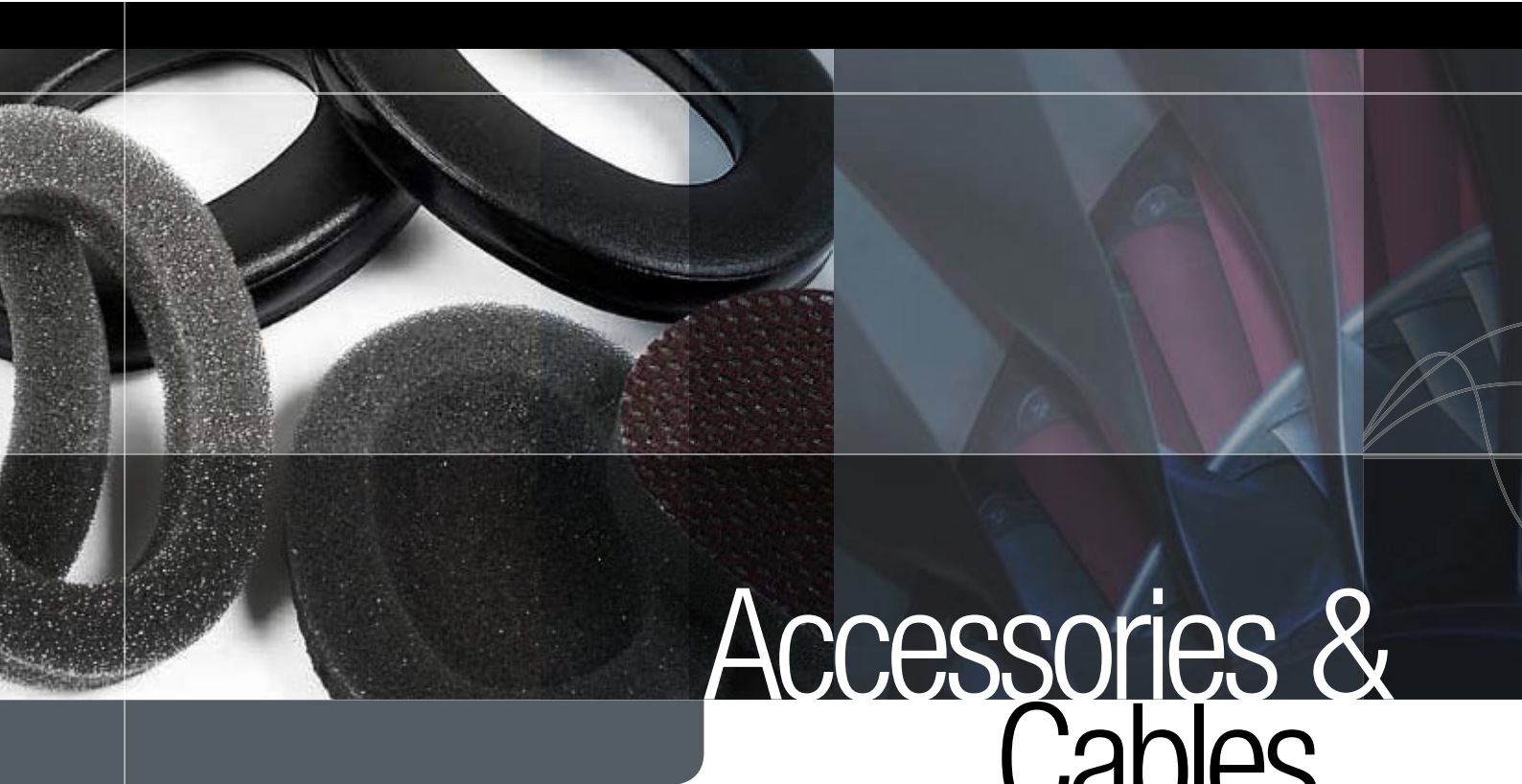
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13,8	21,5	30,9	36,6	35,9	35,5	39,0
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31dB H=32dB M=29dB L=20dB

### MT53H7P3E4410WS5

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,5	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30dB H=33dB M=28dB L=20dB



# Accessories & Cables

A variety of products and spare parts for your 3M™ Peltor™ equipment, such as throat microphones, external PTT's and hygiene kits. Our wide accessory range will help you enhance your 3M™ Peltor™ product and to benefit from its broad usage range in a daily use.

### Flex Cables

Product code	3M ID.No	Communication Radio / Mobile Phone
FL6U-21	XH001654850	Motorola GP300, CP040
FL6U-31	XH001654892	2,5/3,5mm Straight connector: Icom, Cobra, etc
FL6U-32	XH001654900	Motorola GP320/340 GP360/380 GP328/338
FL6U-35	XH001654918	2,5/3,5mm Angeld conneter: Icom
FL6U-36	XH001654926	Kenwood 2,5/3,5mm Angeld connector
FL6U-58	XH001665526	Sepura SPH 2000/3000
FL6U-61	XL001619987	Motorola Visar 3,5mm Straight connector
TAA13-T0299		Icom F31/41 F51/61
FL6U-65		Motorola GP344/388 GP328+/338+
TAA22-T0299		Vertex VX160 VX400
PPN 09-0156		Iphone, 3.5 mm 4-pole
PPN 09-0156A		Sony Ericsson and Nokia 3,5 mm 4-pole
FL6U-64		ICOM F34/F44
FL6U-101		Sepura STP8000



### Hygiene kits

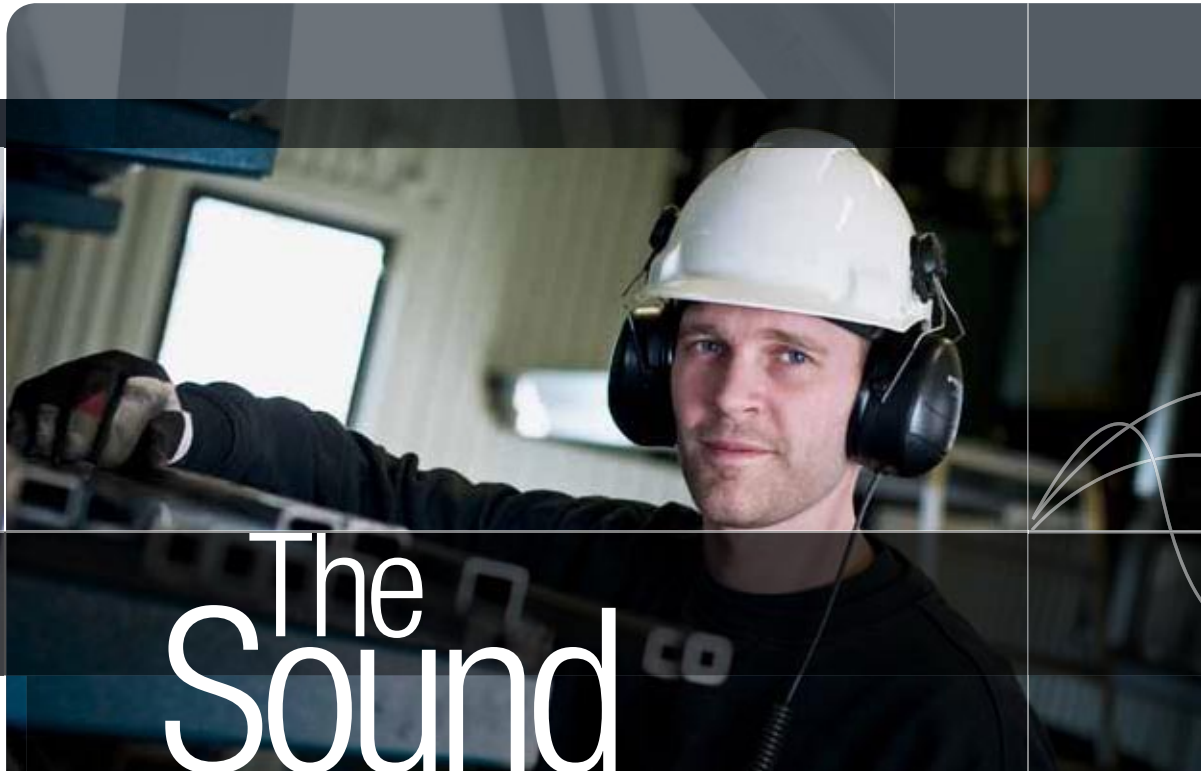
Product	Art. no
ProTac	HY79
Tactical XP	HY79
WS Workstyle	HY68 SV
FM-Radio	HY73
Alert	HY79
LiteCom	HY79



### Rechargeable Battery Pack

Art.no	Description
ACK03	2,4V accumulator, 1700 mAh
FR03-EU	Battery Charger for ACK03, EU plug
FR03-GB	Battery Charger for ACK03, UK plug
FR03-12	Mobile charger for ACK03, 12V
ACK051	2,4V accumulator, 2500 mAh, WS Lite-Com only
FR03-12	Charger for ACK051, WS Lite-Com only





# The Sound Solution

## More safety from one source

Since 2008, renowned Peltor™ and E-A-R™ products significantly broaden 3M's range of hearing, eye, face and head protection products. You will benefit from the combined forces of companies who have been setting standards worldwide in the occupational health field.

Protect yourself and your employees better than before with professional occupational health solutions that meet all your requirements, which are perfectly tailored to your individual applications.

## A safe bet for even better performance

This new portfolio of 3M Company presents a huge advantage for you as customer and user because by joining forces we will be able to develop even better and more comfortable personal protective equipment solutions. This translates to enhanced protection, more comfort and increased productivity. Quality, innovation and know-how will continue to be the distinguishing features of every one of our products – for increased safety and ease of use.

To answer any questions you may have related to occupational health, the contacts you already know will continue to be available to you with the same good service you have become accustomed to.



## Diverse range of personal protective equipment\*

The combined portfolio of 3M, Peltor™ and E-A-R™ products includes high-quality, innovative solutions to protect people at work. Here are some examples:

### Respiratory protection



### Active & passive hearing protection



### Eye protection



### Head protection



### Welding protection



### Protective coveralls



\*Photos of product examples

Find out more and visit our Website [www.3M.EU/Safety](http://www.3M.EU/Safety)



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