

3M™ Occupational Health & Environmental Safety Division
Military Applications



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.



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.



Improves efficiency, reliability and safety

Clear and reliable communications are critical to success in most military operations. To be able to communicate whilst at the same time being protected from harmful noise levels is a vital necessity, both for exercises and actual combat situations. Noise levels are often so high that they can cause immediate and permanent damage to the hearing if protection is not worn. At the same time, communication is of prime and vital importance. Orders and information must be heard and understood, both via radio and directly person to person.

Mission Essential Products

Peltor™ and E-A-R™ provide the appropriate equipment regardless your mission.

From the Classic™ earplug for optimum attenuation and best comfort, to complex communication systems adapted for army, navy and airforce.



Navy

Photo: Peter Nilsson



Airforce



Army

Military Solutions

Sharpens your senses when it matters most...

Soldier's senses must be sharp to enable successful operations. Hearing is just as critical as vision, both in darkness and daylight. He or she must be able to hear incoming radio signals without the risk of revealing the actual location. A snapping twig or a whispered message must be heard and located. The communication over the radio must be unhindered, even in deafening combat situations.

All these are situations where hearing is critical to success. In combat, on a reconnaissance mission or at your post, Peltor™ communication products sharpen your hearing.



Peltor™ Standard System, a communication standard

Peltor™ standard systems use the same connectors and adjustments to PTT buttons and adapters and are used for all headsets, facilitating usage and ensuring safer communications by reducing the use of product specific solutions. You can choose a personal headset for your individual situation and specific task, and yet be able to easily and quickly connect to other communications systems, should the need arise.

Peltor™ adapters are equipped with an audio input via standard J11 jacks, which means that our complete range of standard headsets can be used without any adaptation. The outgoing cord is equipped with jacks for communication radios or telephones, fitting most currently now on the market.

E-A-R™, hearing protection all over the world

E-A-R manufactures a complete line of hearing protection for anyone who spends time in noisy environments. Over 30 years ago E-A-R introduced the yellow foam earplug, which established brand new standards in protection and comfort. Today this earplug continues to be the most widely recognised product in hearing protection all over the world.





Seeing is believing



Besides protecting your hearing and ensuring your communication capacity 3M also offers protective eyewear with advanced optical engineering.

Premium lens technology results in optimal optics with unobstructed field of vision and gives complaint-free wear with less eyestrain. Due to advanced optical engineering 3M has developed patented innovative lens solutions which provide 100% distortion free sight.

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.





Eyewear Solutions

The premium range of safety spectacles offers the highest optical class. A broad range of eyewear products include durable anti-scratch and convenient anti-fog coatings. Most of the safety spectacles and goggles by 3M offer reliable UV protection and are all approved to EN166:2001 and are CE marked.

All eyewear products displayed in this catalogue are specially made for Military & Police, and are tested according to Military V** Test regime for high velocity impact protection.



3M™ Maxim Ballistic TacPack



Description	3M Id:	Reference Id:	NSN number:
Maxim Ballistic TacPack	DE272933560	(13204-99999M)	8465-99-958-2617
Insert	70071530656	(40719-00000)	8465-12-384-6386

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

CERTIFIED

- EN166 (impact protection: FT)
- STANAG 2920 (Edition 2), V50 projectile A3/6723/6, 3.6 mm diameter , V50 = 251 m/s

CASE AND POUCH

- Rigid case with zipper, 40mm belt loop and plastic snap clasp
- Place to put the spectacle, 2 replacement lenses, 1 elastic headband and 1 microfiber pouch
- Soft black microfiber pouch suitable to clean the lens

SPECTACLE

- Plastic frame with DuoForm mould processing
- Dual injected cushion browguard
- Soft universal-fit nose bridge pivots
- Ventilation channel on the top to help prevent fogging
- Short flat replacement temples for better fit under helmets and cups
- By rotating and removing the temples, the various lenses can be replaced with ease
- Broad adjustable elastic strap for secure fit (removable)

LENSES

- Polycarbonate patented aspherical lens (better coverage and excellent field of vision)
- Optical quality class 1 (no distortion)
- Resistance to impact at extreme temperature (marking FT)
- DX coating : anti-fog, anti-scratch, anti-static and anti-chemical attack
- Clear lens for indoor use. VLT = 88%
- Amber lens for low light condition VLT = 88% (cloudy environment) (enhance the contrast and luminosity).
- Dark grey lens for outdoor use (sunny condition) VLT = 13%
- All lens colour provide UV-protection according to EN 170 or EN 172, depending on the lens colour.



3M™ Sentinel TacPack



3M Id:	Reference Id:	NSN Number:
DE272934345	(71510-00003M)	4240-12-384-5966

LENSES

- Tough anti-fog and anti-scratch polycarbonate lenses
- Optical quality class 1 (no distortion) and UV protection
- Maxi-impact system : the lens can not be removed from the back side (impact resistance up to 168m/s)
- Dual-lenses for better orbital eye coverage and wide viewing range for easy weapons sighting
- Clear lens for indoor use. VLT = 90%
- Amber lens for low light condition (cloudy environment enhance the contrast and luminosity). VLT = 89%
- Grey lens for outdoor use (sunny condition). VLT = 11%
- All lens colour provide UV-protection according to EN 170 or EN 172, depending on the lens colour.

PACK CONTENT

- 1x protective case
- 1x black microfiber pouch
- 1x goggle with elastic strap with Clear lenses
- 1x comfortable ventilation insert
- 1x Amber Anti-fog replacement lenses
- 1x Grey Anti-fog replacement lenses

CASE AND POUCH

- Rigid case with zipper, 40mm belt loop and plastic snap clasp
- Place to put the goggle and 2 pairs of replacement lenses
- Soft microfiber pouch suitable to clean the lens

GOGGLE

- High impact nylon black frame for added durability (excellent resistance to impact, heat and cold)
- Specially designed foam gasket is removable, shock resistant and complies with the ANSI flammability test
- Low profile design for better fit under helmets and for the use of army rifle
- Special ventilation system on the bottom and top for heat release and fog resistance
- Broad adjustable elastic strap for secure fit

CERTIFIED

- EN166, field of Use 3, Impact rating FT
- STANAG 2920 (Edition 2), projectile A3/6723/6, 3.6mm diameter, V₅₀, 247 m/s

3M™ Fahrenheit TacPack



3M Id:	Reference Id:	NSN number:
DE272934204	(71360-99999M)	4240-99-865-7136

PACK CONTENT

- 1x protective hardcase
- 1x soft nylon case to store 2 Cover lenses
- 1x Goggle with 2 single Clear lens bonded together
- 1x Lycra 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

CERTIFIED

- EN166, field of Use 3 & 4, Impact rating BT
- STANAG 2920 (Edition 2), projectile A3/6723/6, 3.6mm diameter, V₅₀, 250 m/s

GOGGLE FRAME

- Black TPU (Thermo Plastic Urethane) goggle with indirect ventilation system to prevent fog, dust, sand and liquid
- Thermoformed vented foam for extra comfort
- Temples include a channel to allow users to wear prescription spectacles under the goggle
- Large adjustable nylon head strap (38mm) with polyamide side attachment designed to fit over military helmet
- Silicone lines on the strap to avoid to slide along the helmet
- Frame design provides excellent coverage and good field of vision

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)
- Both lenses are in 1.2mm Polycarbonate with anti-fog coating
- Optical quality class 1 (no distortion - marking 1)
- Resistance to impact at extreme temperature (marking BT @ 120m/s)
- UV filtration (in conformity with EN 170), marking 2C - 1,2
- Inner lens : anti-fog coating / Outside lens = anti-scratch
- Lens marking = 2C-1,2 3M 1 BT (VLT = 82%)
- NEW revolutionary "clip-on" easy cover lens installation.
- The lens cover can be installed even in the dark in a few seconds.



Advanced Optical Engineering by 3M



Advanced Optical Engineering is the true essence of 3M protective eyewear, taking into consideration design, protective qualities and comfort.

In 3M's world, premium is undisputed. Premium Lens Technology results in optimal optics with unobstructed field of vision. Premium Lens Technology gives complaint-free wear with less eyestrain. Due to advanced optical engineering, 3M has developed patented innovative lens solutions. For example the patented Maxim aspherical lens featuring 100% distortion free sight.

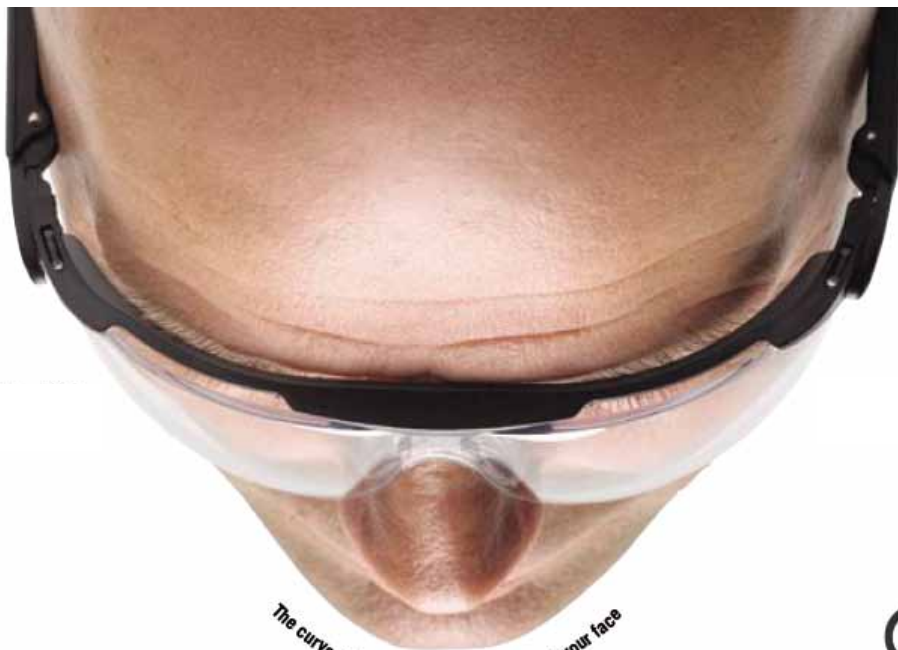
3M's capabilities also include Premium Coating Technology, which is evident in our proprietary 3M™ DX™ coating. DX-coating offers a unique formula for the four critical protective properties: anti-mist, abrasion resistance, anti-static and chemical resistance. The DX coating is

continuously being developed and monitored in order to provide optimum performance.

3M's premium design may seem unimportant from a protective perspective. However, if eyewear is attractive and comfortable to wear, your staff will be encouraged to use it.

Advanced Optical Engineering makes 3M The Optimal Solution.

The unique aspherical lens by 3M



The curve of the lens follows the curve of your face



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** 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.

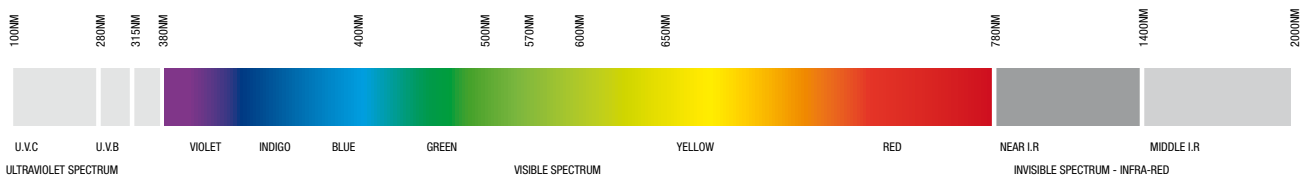
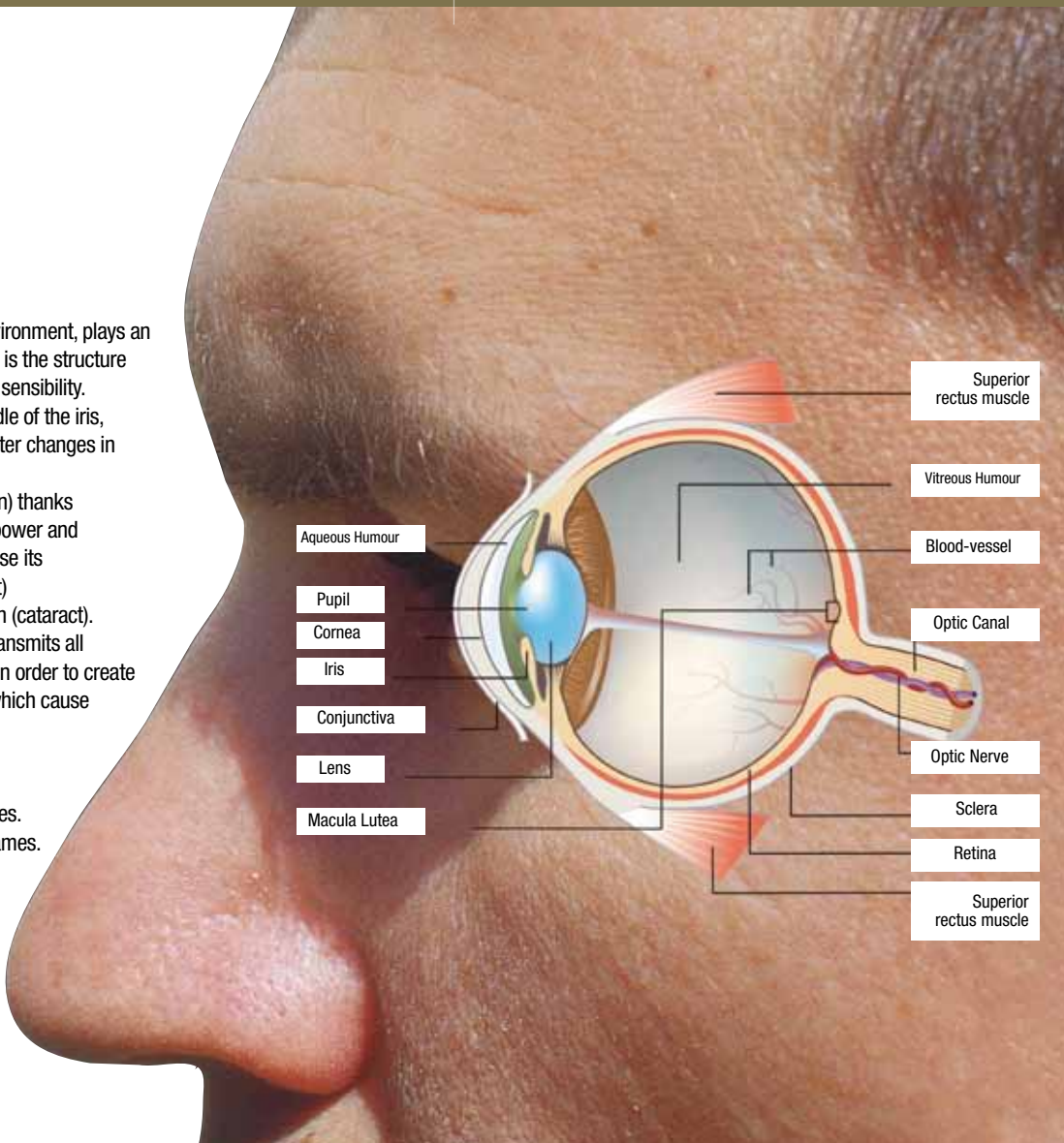
Industrial hazards for the eyes:

- **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.

Facts on eye damage:

Every day world wide more than 600 workers suffer from eye injury simply because they do not wear protective eyewear.

Source: BLS



	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
CORNEA	CONJUNCTIVITIS PARTIAL BLINDNESS	CONJUNCTIVITIS PARTIAL BLINDNESS	CONJUNCTIVITIS PARTIAL BLINDNESS				
LENS		CATARACT PREMATURE AGING	CATARACT PREMATURE AGING			CATARACT	CATARACT PARTIAL BLINDNESS
RETINA				PARTIAL BLINDNESS PHOTORETINITIS	VISION PROBLEMS DISCONTINUOUS VISION	RETINIS PIGMENTOSA BLINDNESS	



Passive Hearing Protection

Choosing the correct hearing protection is paramount to a successful hearing conservation programme. If you offer just one type of device it will not suit all workers and you are more likely to get some workers not wearing their hearing protection.

However if you consult with your workers over the choice of hearing protection and offer a choice, for example a foam earplug, a banded hearing protector and an earmuff, compliance will improve. Ownership and participation will strengthen implementation.

Disposable Foam Earplugs

Roll down earplugs, made from expandable slow-recovery foam, provide the best combination of comfort and protection for most users. One size fits most. Once in the ear, foam plugs expand to provide a snug and secure custom fit. E-A-R™ offers a wide range of disposable earplugs, from the famous yellow 3M™ E-A-R™ Classic™ earplug through to sophisticated shaped options such as the E-A-R™ soft Grippers.



Pod Plugs

Pod earplugs are so easy to use they practically insert themselves. There is no roll needed, just use the soft flexible grip to push the earplug into position and achieve excellent protection. Because you do not have to touch the foam during fitting it is one of the most hygienic types of earplug available. Take a look at the disposable 3M™ E-A-R™ Push-In™ earplug or for a reusable option try out the 3M™ E-A-R™ Express™ earplug.



Reusable Pre-moulded Earplugs

Premolded plugs are made from flexible materials that are preformed to fit the ear. They are generally available with a joining cord to prevent loss. These reusable earplugs are comfortable, hygienic and economical. No sizing is required for these patented, pre-moulded, triple flange earplugs. Available in a variety of styles and protection levels.



Semi-aurel

Banded hearing protectors are easy to use, convenient and extremely comfortable. They are quick to put on and off and to store around the neck when not required making them ideal for intermittent use. They are so easy to fit, it's very difficult to fit these products incorrectly so you can be confident that your workers are receiving the right level of protection. Most models are available with spare pods making them an economical option.



Passive Earmuffs

Peltor™ Earmuffs consist of rigid cups with soft plastic cushions that seal around the ears to block noise.

They are a popular choice in hearing protection due to their ease of use and ability to effortlessly check that workers are wearing their hearing protection. They are available in headband, neckband, helmet-attachable and folding models to meet virtually every application need and wearer preference.



3M™ Peltor™ Passive Hearing Protection



PELTOR™



3M Id:	Reference Id:	NSN number:
XH001658265	H515FB-508-GN	4240-09-510-1162



3M™ Peltor™ Bullseye™ I Foldable Hearing Protector for Military

The Peltor™ Optime™ I earmuff has been developed for demanding noisy environments and muffles even extremely low frequencies to a maximum degree. The sealing rings are filled with a unique combination of liquid and foam. The result is an optimum seal with low contact pressure, which provides agreeable comfort even during long-term use. The sealing rings have ventilation channels and are covered with soft, patterned, hygienic foil.

H515FB-508-GN

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	10.9	17.3	26.6	28.3	33.5	37.8	37.9
Standard Deviation (dB)	3.2	2.5	2.2	2.7	2.6	2.0	2.6
Assumed Protection (dB)	7.7	14.8	24.4	25.6	30.9	35.7	35.3

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



3M Id:	Reference Id:	NSN number:
XH001658562	(H540A-441-GN)	



3M™ Peltor™ Bullseye™ III Passive Hearing Protector for Military

The Peltor™ Optime™ III earmuff is a high performance hearing protector and has been developed for use in extremely noisy environments. The protection is based on a technology with a double casing minimising resonance in the holder casing resulting in maximum high-frequency attenuation. An acoustic connection between the inner volume and the volume between the casings in its turn provides maximum low-frequency attenuation.

H540A-441-GN

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.4	24.7	34.7	41.4	39.3	47.5	42.6
Standard Deviation (dB)	2.1	2.6	2.0	2.1	1.5	4.5	2.6
Assumed Protection (dB)	15.3	22.1	32.7	39.3	37.8	43.0	40.0

SNR=35dB H=40dB M=32dB L=23dB



3M Id:	Reference Id:
XH001650890	(H540A-461-GB)



3M™ Peltor™ Optime™ III Hi-Viz Passive Hearing Protector

Same attenuating abilities as the Peltor™ Optime™ III. Hi-Viz green for workers who need hearing protection and be extra visible – on road construction sites, airports or other high-risk workplaces. The sealing rings are broad and filled with soft plastic foam for the best fit and low contact pressure. The Peltor™ Optime™ III Hi-Viz earmuff stands for effective protection and highest comfort for the wearer. The product is also available in di-electric version without visible metal parts.

H540A-461-GB

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.4	24.7	34.7	41.4	39.3	47.5	42.6
Standard Deviation (dB)	2.1	2.6	2.0	2.1	1.5	4.5	2.6
Assumed Protection (dB)	15.3	22.1	32.7	39.3	37.8	43.0	40.0

SNR=35dB H=40dB M=32dB L=23dB



Passive Hearing Protection



3M™ E-A-R™ Combat Arms™

Passive Hearing Protector, double ended



Specially developed for the military. Combat Mode: this earplug's patented design allows wearers to hear low-level sounds critical to mission safety – conversation, footsteps, rifle bolts. When needed, the plug's "filter" reacts to provide instant protection from high level noises like weapons fire and explosions. Steady State Mode: for protection against constant noise (aircraft, armored vehicles, etc.) without hear-through.

- Patented dual-protection design
- Low-level sounds heard clearly
- High-impulse noise blocked instantly
- Premolded triple-flange design fits most ear canals
- Comfortable and reusable
- No batteries or moving parts

Description	3M Id:	Reference Id:	NSN number:
Combat arms double ended in a Black box	GT600003146	(BX-01-012)	6515-99-904-2098
Combat arms double ended bulk	XA007700165	(UM-02-001)	6515-99-867-8722
Combat arms double ended in a Brown box	70071521226	(370-1011)	6515-01-466-2710

E-A-R™ Combat Arms™ Passive Hearing Protector, double ended

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	25.8	26.4	22.9	24.4	26.4	30.4	36.8	41.4
Standard Deviation (dB)	5.5	5.4	5.4	7.2	5.7	5.4	6.3	6.7
Assumed Protection (dB)	20.3	21.0	17.5	17.2	20.7	25.0	30.5	34.7

Steady State mode SNR=24dB H=26 M=21 L=19

Peak noise reduction in Combat mode

External Peak Sound Level (dB)	110	130	150	170	190
Peak Noise Reduction (dB)	3.4	12.3	17.0	24.7	32.1
Standard Deviation (dB)	1.5	0.8	0.7	0.2	1.6

3M™ E-A-R™ Combat Arms™

Passive Hearing Protector, single ended



The ISL non linear ear-plugs are designed specifically for use in a combat environment to provide situational awareness and protect against high level of peak impulse noise from small arms and artillery weapons fire. The subjective attenuation measurements against continuous noise are carried out in accordance with EN352-2:2002 whilst the peak impulse noise protection is assessed and reported by the Institute of St. Louis against an internal military test protocol.

Full details of the attenuation measurements are shown below.

The SNR and HML values are: **H = 20, M = 11, L = 6 SNR = 15**

At 110dB the ISL plug reduces the peak noise level by approximately 8dB, this rises to 25dB at a peak pressure of 190dB.

To ensure the peak sound level effective to the ear remains below the Peak Exposure Limit Value of 140dBC it is recommended the product be restricted to a maximum external level of 155dBC peak.

Description	3M Id:	Reference Id:	NSN number:
Skin colour with shorter stem, bulk	XA007701817	(370-1400)	

E-A-R™ Combat Arms™ Passive Hearing Protector, 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 (dB)	-0.5	0.2	2.8	8.8	12.1	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™ Passive Hearing Protector



3M Id:	Reference Id:	NSN number:
GT600003120	(BX-01-010)	

E-A-R™ Classic™ earplugs are made from a soft energy absorbing polymer foam which provides excellent hearing protection and all day comfort. Ideal for use where noise is a problem, either in work or leisure activities.

E-A-R™ Classic™ small earplugs are also available for users who are looking for all the benefits of the E-A-R™ Classic™ but who want greater comfort in smaller ear canals.

E-A-R™ Classic™ Passive Hearing Protector

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 (dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0

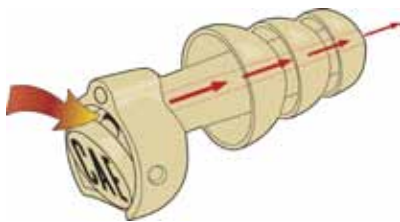
SNR=28dB H=30dB M=24dB L=22dB

3M Id:
HC000609178



Ear plugg Box
Storage box for Ear plugs.

3M™ E-A-R™ Combat Arms™ Hear-Through™ Protection



Patented Dual-Protection Design

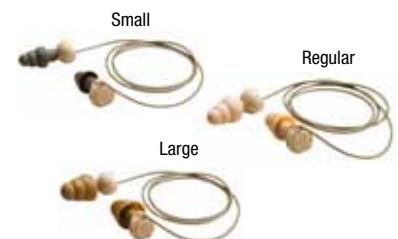
Open/Weapons Fire Mode: this earplug's patented design allows wearers to hear low-level sounds critical to mission safety – conversation, footsteps, rifle bolts. When needed, the plug's filter provides attenuation of high level noises like weapons fire and explosions.

Closed/Constant Protection Mode: for attenuation of constant noise (aircraft, armored vehicles, etc.) without hear-through.

Combat Arms™ Earplugs are designed to meet the demanding hearing protection needs of the armed forces. In the Open/Weapons Fire mode, they allow situational awareness yet protect against dangerous peak levels with a filter element that reacts instantaneously to provide increased protection. In the Closed/Constant Protection mode, they protect against high-level steady noises like those in tracked vehicles. This version of the Combat Arms utilizes a new finger-touch rocker cover that can be operated while the earplug is in the ear.

TIP SIZES

Choose smallest earplug tip size that provides good seal and secure fit, but large enough that at least one flange seals earcanal at earcanal entrance.



Description	3M Id:	Reference Id:	NSN number:
Single-Sided CAE (small)	70071561511	(370-1030)	6515-01-576-8837
Single-Sided CAE (medium)	70071561529	(370-1031)	6515-01-576-8861
Single-Sided CAE (large)	70071561537	(370-1032)	6515-01-576-8869

E-A-R™ Combat Arms™ (Closed Mode)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	19.2	21.1	21.3	22.1	25.4	29.2	31.1	33.9
Standard Deviation (dB)	6.2	6.1	6.1	5.6	4.0	3.1	5.6	6.0
Assumed Protection (dB)	13.2	15.0	15.2	16.5	21.4	26.1	25.5	27.9

SNR=24dB H=25dB M=20dB L=17dB

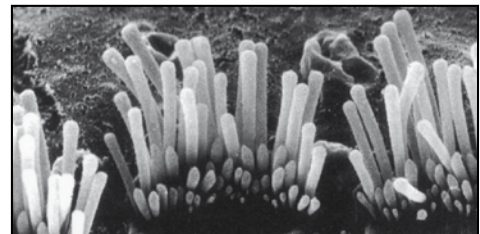
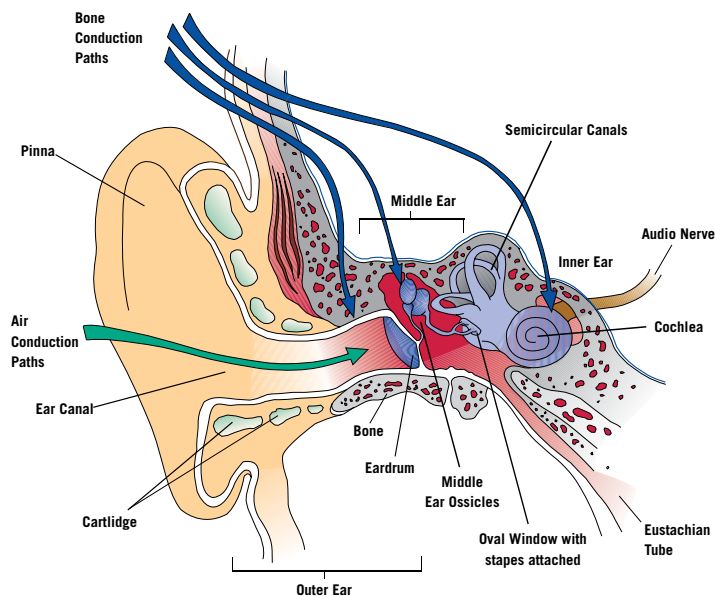
E-A-R™ Combat Arms™ (Open Mode)

External Peak Sound Level (dB)	110	130	150	170	190
Peak Noise Reduction (dB)	19.2	21.1	21.3	22.1	25.4
Standard Deviation (dB)	6.2	6.1	6.1	5.6	4.0

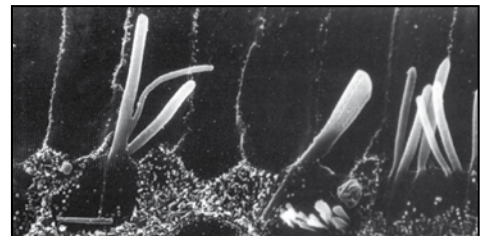
Peak noise reduction values in Open Mode as determined by the Institute of Saint-Louis (ISL) Laboratory, France



Cross Section Of Ear



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.

The human ear is designed to pick up 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.

You only have two

One of five senses. Two ears for a whole life. And a damaged ear cannot be repaired. Noise in the workplace is the most common cause 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. Five minutes of carelessness during an eight-hour working day could result in impaired hearing for the rest of your life. Full-time wear is therefore the only way to guarantee protection. Most people are aware of this, but are still careless because they perceive hearing protection as heavy or uncomfortable, or because they can't hear what their colleagues are saying.

But how do you convince people to wear hearing protection all the time? Well, just make it easy to wear!

"Measuring Noise Levels

3M has a comprehensive range of noise measurement solutions used extensively in the military to accurately measure noise exposure levels. Area noise can be measured with a sound level meter whilst a dosimeter is used to more precisely measure the exposure of a specific individual. All Hearing Conservation programmes start with a reliable understanding of the noise risk so the right steps can be taken to reduce the risk and ensure staff are appropriately protected. "



100% Usage

How harmful the noise is depends on the time of exposure in combination with the sound level. Just five minute's carelessness during an eight-hour day can cause lifelong hearing loss. That's why 100% usage is critical if you are to get the protection that the chosen hearing protector provides. Choose a comfortable hearing protector that suits you and your needs.



100% usage.
Gives the expected protection.



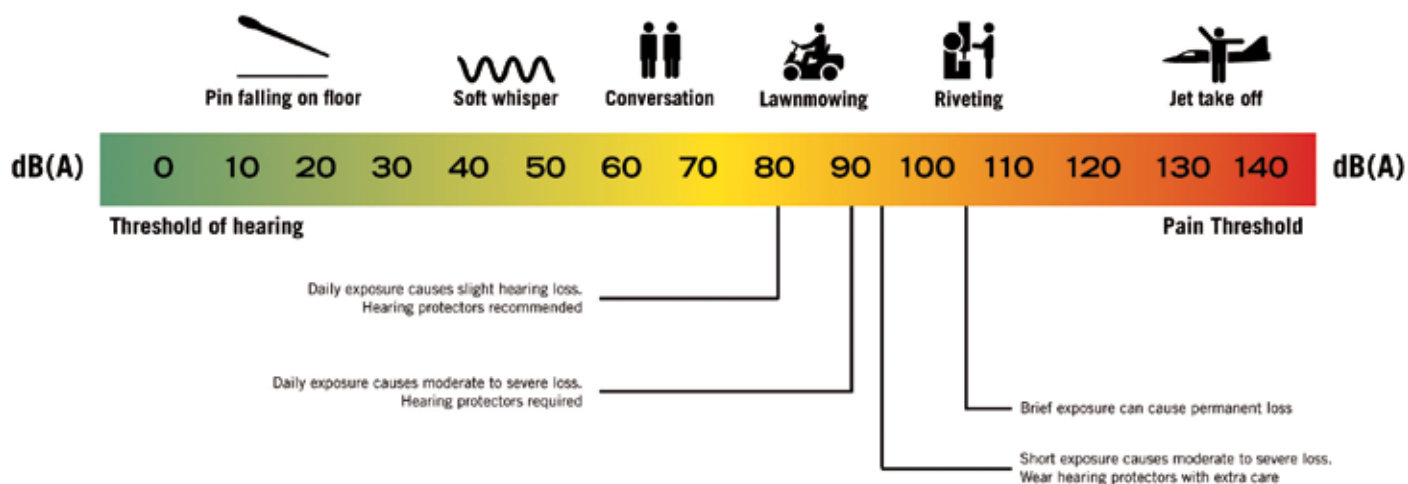
99% usage.
Just five minute's carelessness
per day significantly reduces the
effect of the hearing protector.



90% usage.
Virtually no protection.

100% usage - the only secure protection from hearing loss

Easy To Damage - Easy To Protect





Tactical Solutions

The Peltor™ Tactical range of products are invaluable tools for people who are subjected to impulse noises. Peltor™ Tactical products protect against harmful noise while letting in and even amplifying ambient sounds.

3M™ Peltor™ Tactical Solutions



PELTOR™

3M™ Peltor™ SportTac™ Electronic Level Dependent Hearing Protector



MT16H210F-478-GN



- Developed specifically for hunters and marksmen
- Smooth level dependent function, which eliminates abrupt sound cut-off
- Interchangeable shells makes it easy to change colour
- Equipped with automatic shut-off function
- Collapsible for easy storage
- Not to be used in combat situations
- Does not fit under a ballistic helmet

Only for practice shooting

Description

Hunting, orange shells incl.
Sport shooting, black shells incl.

3M product code

XH001650049
XH001650056

Reference Id

MT16H210F-478-GN
MT16H210F-478-RD

Attachment

Foldable head band
Foldable head band

Weight (g)

318
318

Colour

Orange Black
Black Red



MT16H210F-478-GN

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 (dB)	7.8	14.8	23.2	23.8	27.5	34.6	31

According to EN352-1:2002

SNR=26dB H=29dB M=23dB L=16dB

3M™ Peltor™ WS SportTac™ Electronic Level Dependent Hearing Protector with Bluetooth™



Peltor™ WS SportTac™ allows you to better control what you hear – and don't hear. You can easily adjust the volume of surrounding sounds, filter out certain unwanted frequencies and still be protected from harmful noise levels when the shot is taken. The built in Bluetooth™ solution makes it possible for wireless connection to a mobile phone or other communication device for instant and discreet communication.

Only for practice shooting

MT16H21FWS5E-584GN

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
Standard Deviation (dB)	3.8	2.6	2.3	2.2	2.1	3.6	2.2	3.3
Assumed Protection (dB)	11.4	8.5	15.9	24.8	21.7	29.8	35.5	35.5

According to EN352-1:2002

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

3M

3M™ Peltor™ Tactical Solutions



3M™ Peltor™ Protac II™ Electronic Level Dependent Hearing Protector

PELTOR™



MT15H7A2 GN

- Improves communication and safety
- Level dependent function in stereo that lets you hear ambient sound: conversation, machine sounds and warning signals
- Plenty of space for the ear
- Last setting is stored when switched off
- Headset option with guide-mounted microphone
- Three colour options: Military green, Red, Black
- Automatic shut-off after two hours if no function is used
- Battery life is about 1000 hours. Warning signal when power is low, before shut-off
- Audio input jack for external radio

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
Standard	XH001650015	MT15H7A2 GN	Head band	370		4240-25-150-9650
Standard	XH001650031	MT15H7A2 SV	Head band	370		
Standard	XH001650023	MT15H7A2 RD	Head band	370		

MT15H7A2

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

According to EN352-1:2002

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



3M™ Peltor™ Tactical™ XP Headset

Electronic Level Dependent Hearing Protector

PELTOR™



MT1H7F2

- Level dependent function that lets you hear ambient sound: conversation, machine sounds and warning signals
- Electronic voice guided menu system
- Equipped with the following functions: volume for the level dependent function, balance, adjustable release time, equalizer, volume for external input and external input mode
- Plenty of space for the ear
- Last setting is stored when switched off
- Automatic shut-off after two hours if no function is used
- Warning signal when power is low, before shut-off
- Audio input jack for external radio
- Available as headset

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN numbers:
Standard	XH001650064	MT1H7F2	Foldable head band	400		4240-25-152-3370
Standard	GT600013889	MT1H7P3E2	Helmet attachment	435		
Standard	XH001660667	MT1H7B2	Neck band	385		
Headset J11	XH001660717	MT1H7F2-07	Foldable head band	400		5965-25-150-9655
Headset J11	XH001660774	MT1H7P3E2-07	Helmet attachment	435		
Headset J11	XH001660675	MT1H7B2-07	Neck band	395		

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

According to EN352-1:2002

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

According to EN352-1:2002

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

According to EN352-1:2002

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





ComTac™ Solutions

You protect us - we protect you

The Peltor™ ComTac™ product range are invaluable tools for people who are subjected to impulse noises. Peltor™ ComTac™ products protect against harmful noise while letting in and even amplifying ambient sounds.

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 protection is not worn.

At the same time, communication is a must. Orders and information must be heard, both over the radio and directly person to person.

The Peltor™ ComTac™ Electronic Level Dependent Hearing Protector is designed for just these conditions. It is also specially designed to be worn comfortably under a helmet, be used with different kinds of weapons without being in the way, and at the same time protect effectively against harmful noise levels.

3M™ Peltor™ ComTac™ Solutions





PELTOR™

3M™ Peltor™ ComTac™ XP Electronic Level Dependent Hearing Protector



- Slim cup design
- SNR of 28dBA
- Level dependent function (talk through)
- Functions: external input mode, release time, balance, plug mode, equalizer mode and external mute mode
- Last setting is stored when switched off (except plug mode)
- Fully independent dual earphone system for talk through and external radio signal
- Compatible with the majority of ballistic helmets on the market
- Automatically switches off after two hours if no function is used
- Battery life is about 500 hours

MT17H682FB-02

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
Standard	XH001660584	MT17H682FB-02	Foldable Head band	285		5965-09-510-1152
Standard	XH001660592	MT17H682FB-08 SV	Foldable Head band	285		4240-25-160-3156

MT17H682FB-*** **

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 (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

MT17H682FB-*** ** in combination with 3M EAR Classic earplug (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
Std 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



and



3M



Communication made easy...

The dynamic microphone has a small coil attached to the membrane. When sound waves make contact with the diaphragm, it vibrates. As the coil is attached to the membrane, a small voltage is generated in it by electromagnetic induction. These microphones are “self driven” and needs no external power source. The optimal positioning is 3-5mm from the lips.

The standard boom microphone is an ambient noise cancelling dynamic microphone with standard performance, which makes the systems usable for many purposes, such as radio and amplifier installations in aircraft, ships and vehicles or other places where noise levels are high.

The Gooseneck microphone has a flexible arm.

The throat microphone can be connected to detachable dynamic microphone input. Perfect to use with gasmasks and respiratories.



Standard Boom microphone



Gooseneck microphone



Throat microphone

3M™ Peltor™ ComTac™ Headset Solutions



3M™ Peltor™ ComTac™ XP Headset

Electronic Level Dependent Headset



MT17H682FB-38



- Slim cup design
- SNR of 28 dB
- Level dependent function (talk through)
- Functions: external input mode, release time, balance, plug mode, equalizer mode and external mute mode
- Last setting is stored when switched off (except plug mode)
- Fully independent dual earphone system for talk through and external radio signal
- Compatible with the majority of ballistic helmets on the market
- Automatically switches off after two hours if no function is used
- Battery life is about 500 hours
- Available as a Neckband



MT17H682BB-38

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
Headset J11	XH001660600	MT17H682FB-38	Foldable Head band	335		5965-09-510-1157
Headset J11	XH001660618	MT17H682FB-38 SV	Foldable Head band	335		5965-09-510-1158
Headset J11 goose-nech mic.	XH001668603	MT17H682FB-68	Foldable Head band	335		5965-09-510-1467
Headset J11 goose-nech mic.	XH001668611	MT17H682FB-68 SV	Foldable Head band	335		
Headset J11 Neckband	XH001674528	MT17H682BB-38	Neckband			
Headset J11 Neckband	XH001674544	MT17H682BB-38 SV	Neckband			

MT17H682FB-** ***

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 (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

MT17H682BB-** ***

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 (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





PELTOR™

3M™ Peltor™ ComTac™ XP Headset

Bone Conduction Microphone



- Slim cup design
- SNR of 28 dB
- Level dependent function (talk through)
- Functions: external input mode, release time, balance, plug mode, equalizer mode and external mute mode
- Last setting is stored when switched off (except plug mode)
- Fully independent dual earphone system for talk through and external radio signal
- Compatible with the majority of ballistic helmets on the market
- Automatically switches off after two hours if no function is used
- Battery life is about 200 hours
- Available with bone conduction microphone for Selex Communication radio and for Harris 7800






MT17H682FB-T5187



MT17H682FB-72



MT17H682FB-69

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
Headset, bone conduction mic. Marconi PRR	XH001660634	MT17H682FB-69	Foldable head band	—		5965-25-152-7509
Headset, bone conduction mic. GP328	XH001660659	MT17H682FB-T5187	Foldable head band	—		5965-09-510-1155
Headset, bone conduction mic. Harris 7800		MT17H682FB-72	Foldable head band	—		

MT17H682FB-** ***

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 (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





3M™ introduces the innovative Peltor™ COMTAC™ 4 Hybrid Headset for today's modern warfighter. The 4th generation headset continues the legacy and tradition of trusted hearing protector headsets from 3M's Peltor brand. The hybrid approach addresses customer demand for in-ear hearing protection while retaining the advantages of the traditional architecture of an over-the-ear style hearing protector.


















3M™ Peltor™ ComTac™ IV Hybrid Headset

The Peltor™ ComTac™ IV is designed to help reduce exposure to hazardous levels of noise, improve situational awareness and at the same time enable two-way radio communication in noisy environments.



PELTOR™

- Designed for comfortable use with a ballistic helmet
- Hearing protection
- Detachable microphone & ear buds
- Backwards compatible with Peltor™ FL50** series adapters
- Level dependent function for situational awareness
- Easy use and operate
- Foldable for easy storage and transportation
- Voice guided configuration menu (hidden)
- Functions: release time, balance, boost mode
- Automatic switch off after two hours if no function is used
- Headset electronics are contained completely inside the headset housing, eliminating the need for a large, heavy external radio control box
- A headband which mechanically stabilizes the headset to help relieve issues of earplugs dislodging from cable snags and body movement
- No software loads or outside power required, complete self-contained headset with power fail safe
- Tested to military standards

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
ComTac IV, standard wired J11	XH001679535	MT16H044F-38 GN	Foldable head band	238g		 
ComTac IV, NATO wired	XH001679543	MT16H044F-86 GN	Foldable head band	238g		 
ComTac IV, Dual 2xDownload, NATO	XH001679568	MT16H044F-19B	Foldable head band	—		 
ComTac IV, NATO wired J11	XH001679576	MT16H044F-86 SV	Foldable head band	238g		 
Comtac IV, Stereo connected J11	XH001679550	MT16H044F-88 GN	Foldable head band	238g		 

Accessories and Spare parts:

Description	Art no	HY700 Comfort padding - foam	HTM045/2 Pair of ear buds	MT21E Flexi boom speech microphone	M60/2 Wind protection foam
MT21E Flexi boom speech microphone	XL001650263				
MT90-02 Throat microphone (dynamic)	XL001644068				
1079 SV Battery lid	11003065544				
M60/2 Wind protection foam	XH001652532				
HY700 Comfort padding-foam	XH001679584				
HTM045/2 Pair of ear buds	XH001679600				
PELTIP4-01 Ultrafit eartips, 50 pairs	XH001679618				
PELTIP5-01 Torque eartips, 50 pairs	XH001679626				
					

PELTIP4-01 in combination with MT16H044F-** UltraFit Eartips

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	28.6	27.0	30.3	29.2	30.9	31.6	32.0
Standard Deviation (dB)	5.3	6.0	6.0	5.4	3.4	6.6	4.5
Assumed Protection (dB)	23.3	21.0	24.4	23.8	27.4	25.1	27.6

According to EN352-1:2002

SNR=27dB H=26dB M=25dB L=23dB

PELTIP5-01 in combination with MT16H044F-** Torque Eartips

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	31.0	29.5	31.4	33.9	33.7	40.0	42.4
Standard Deviation (dB)	4.9	4.6	5.2	5.5	3.6	2.5	3.4
Assumed Protection (dB)	26.1	24.9	26.3	28.4	30.1	37.4	38.9

According to EN352-1:2002

SNR=32dB H=32dB M=29dB L=27dB

3M





Mission Essential Products

Peltor™ and E-A-R™ provide the appropriate equipment regardless your mission. From the Classic™ earplug for optimum attenuation and best comfort, to complex communication systems adapted for army, navy and airforce.



Adapters & Cables

Sturdy, water-resistant adapters with integrated push-button (PTT) for connecting Peltor™ headsets to communication radios and mobile telephones.
For environments with risk of explosion, we also have ATEX-approved EX adapters.



PELTOR™

Adapter

Single PTT

The new Peltor™ FL5000 adapter series is a small, strong and easy-to-handle adapter, specially designed for rough environments. The PTT button is within easy reach, both from the right and left hand side, and easy to handle even when wearing heavy gloves. The adapter, and the jack, in particular, have been designed to protect the electronic components against moisture. The chassis jack and strain-relief have been tested and approved for a min. of 100,000 plug-ins. The back of the adapter has a strong, 360° turnable clip for secure fastening on garments.



FL50



Adapter

Multi PTT

Special adapters for special needs.
It's possible to choose if the headset shall have a connector or not.

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



FL56



FL57



PELTOR™

Standard Adapters

3M product code	Reference Id	NSN number	Communication radio
XH001650999	FL5010	5965-25-150-9679	ICOM IC, Alan, Zodiac (straight connector), Yaesu, Alinco
XH001651906	FL5017	5965-25-150-9682	Motorola Visar
XH001651914	FL5018		Motorola GP900, HT1000, MT2000
XH001651005	FL5030	5965-25-151-5998	Motorola GP340, GP320
XH001651013	FL5034	5965-25-150-9684	ICOM IC-F3GS, IC-F3GT, IC-F4GS, IC-F4GT (angled connector)
XH001651021	FL5035	5965-25-150-9685	Kenwood TK3101, Funkey
XH001654249	FL5042	5965-25-150-9686	Nokia TETRA THR880/ EADS TETRA THR880i
XH001679188	FL50142		Cassidian EADS THR9
XH001654256	FL5044	5965-25-152-0519	ICOM F31/F41 F51/F61
XH001654280	FL5058		Sepura TETRA SRP2000 / SRH3*00
XH001675269	FL50101		Sepura TETRA STP8000 series
XH001654306	FL5062		Motorola TETRA MTP850
XH001677794	FL50-T9170		Motorola TETRA MTH800
XH001654314	FL5063		Motorola Mototrbo
XH001654348	FL50-T9088		ICOM IC-M1 / M71
XH001654389	FL50-T9089A		ICOM IC-A3, A4, A6 / A22
XH001654397	FL50-T9139		ICOM IC-F34/F44
XH001654405	FL50-T9140		Vertex VX 160 / 400
XH001654413	FL50-T9143		Motorola GP344 / 388
XH001654447	FL50-T9148		Vertex VX 820, 920
XH001664974	FL50-T9150		Vertex HX370
XH001652946	TKD5502/1		Shroud for FL50**, FL55**, FL56**



TKD5502/1

Adapters for Military radios, “Peltor” wiring

3M product code	Reference Id	NSN number	Communication radio
XH001654223	FL5040	5965-09-510-4989	Adapter for MBITR 2M, AN/PRC-148
XH001654272	FL5052	5965-25-150-9969	Thales PR4G
XH001654140	FL5025	5965-22-609-5198	Adapter for RA145, RA146, RA180 (for Sweden)
XH001654199	FL5031		Adapter for Intercom with AP107 connection
XH001654462	FL50-T9507	5930-25-152-4734	Adapter for MBITR 20M, Maritime

For more information regarding adapters for military radios, please contact military sales representative.



PELTOR™

Headset and Adapters for Military radios, "NATO" wiring

3M product code	Reference Id	NSN number	Description
XH001678107	MT17H682FB-86	5965-09-510-4995	Headset J11, "NATO" wiring
XH001678115	MT17H682FB-86 SV	5965-09-510-4996	Headset Black J11, "NATO" wiring
XH001678123	MT17H682BB-86	5965-09-510-4993	Headset J11, Neckband "NATO" wiring
XH001678131	MT17H682BB-86 SV	5965-09-510-4994	Headset J11, Neck band "NATO" wiring
	MT17H682P3AD-86		Headset with rails attachment for exampel OPS-core helmet, "NATO" wiring
XH001678149	MT17H682FB-87	5965-12-384-5607	Headset w goose neck mic, "NATO" wiring
XH001678156	MT17H682FB-87 SV	5965-12-384-5609	Headset Black w goose neck mic, "NATO" wiring
XH001674064	MT17H682FB-19B	5965-25-160-5197	Headset for dubble communication w goose neck mic, "NATO" wiring
XH001678180	MT72H10F-86		Twin-Cup High Attenuation Headset, J11, "NATO" wiring
XH001678198	MT7H79F-86		High Attenuation Headset, J11, "NATO" wiring
XH001678172	MT32H02-86		No Attenuation Headset, J11, "NATO" wiring
XH001665120	FL5040-07	5965-25-160-3745	Adapter for MBITR 2M, AN/PRC-148, "NATO" wiring
	FL5052-02	5965-25-150-9969	Adapter for Thales PR4G, "NATO" wiring
XH001678214	FL5030-02		Adapter for Motorola GP340
	FL5018-02	5965-09-510-4988	Adapter for Motorola GP900, XTS3000, XTS5000
XH001678388	FL5601-100	5965-25-160-5200	Adapter for Harris 7800, J11, "NATO" wiring

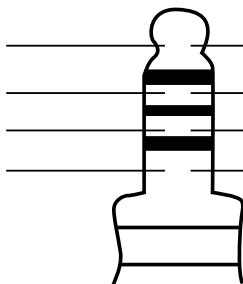


MT17H682P3AD-86

Difference between "NATO and "Peltor" Standard

"NATO" wiring

MIC -
Earph. +
MIC +
Earph. -



"PELTOR" STAND wiring

MIC -
MIC +
Earph. +
Earph. -

For more information regarding adapters for military radios, please contact military sales representative.

Special Headset and Adapters for Military radios

3M product code	Reference Id	NSN number	Description
XH001678164	MT17H682FB-88	5965-12-384-5612	Headset Stereo connected J11, with MT7N mic. (Only for FL5501 and FL5701 adapter)
XH001653027	FL5501	5965-09-510-4991	Dubble adapter for MBITR 2M, AN/PRC-148 (Only to MT17H682FB-48 Headset)
XH001673611	FL5701	5965-12-384-6451	Dubble adapter for MBITR 2M, AN/PRC-148 (Only to MT17H682FB-48 Headset)



3M™ Peltor™ Spare Parts & Accessories



PELTOR™



M42/1



HY79
NSN number: 5965-66-146-0146



HYM1000



MT7N



M60/2



MT21
NSN number: 5965-12-382-0893



FL6AB
NSN number: 5995-25-148-1859



MT90-02 Dynamic mic
MT90-03 Electret mic



FL6AC
NSN number: 5995-25-148-9238



MT7-FL6AB
NSN number: 5995-25-148-1723

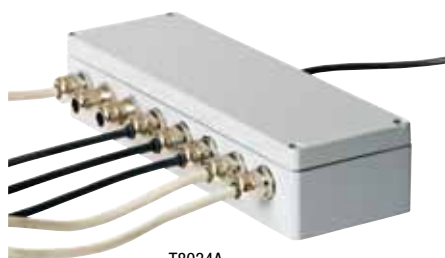


M995



MT90H044

3M™ Peltor™ Vehicle Intercom T8034A

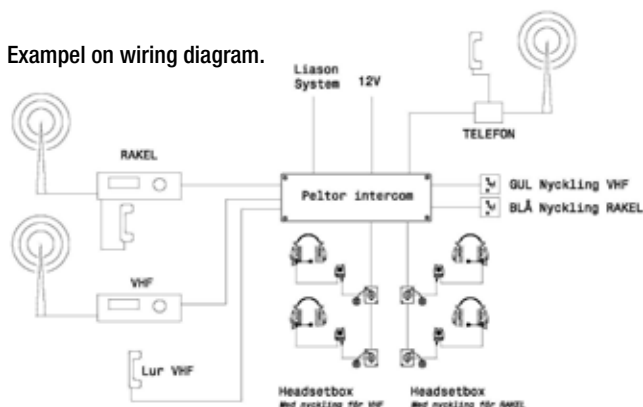


T8034A

- The Peltor vehicle intercom is an intercom system based on Peltor™ Rally Amplifiers
- The system is designed for use in vehicles on land and sea, combining full-duplex communication with connectability to a mobile station/com radio(s)
- The vehicle intercom system is fitted in a moisture and impact-resistant metal capsule (IP65)
- Cables for power, headsets, PTT function and mobile stations can be connected to the unit

Description	3M product code	Reference Id	Colour
Max. 4 users, power supply 12V	XH001662374	T8034A	
Headset with J47 contact	XH001661871	MT7H79A-T5086G	
Aviation-Headset, 2m cable with VK01 & J47 contact	XH001660956	MT51H79F-T5086P	
Headsetbox for 1 headset, 5m cable, J47C	XH001655220	FLT-T8035	
Headsetbox for 3 headset, 5m cable, J47C	XH001665658	FLT-T8037	
PTT button with 2m cable	XH001662770	TA007	
Adapter for Peltor J11 contact to Vehicle Intercom	XH001654330	FL50-T9081	

Exampel on wiring diagram.



For more information please contact the Technical Com. service in Varnamo.



3M™ Peltor™ Intercom Solutions



PELTOR™

3M™ Peltor™ Dect-Com II™



DC2815 with DC2064



DC2811

Peltor DECT-Com II is a wireless intercom system, operating on the 1.8 GHz "DECT-frequencies", which are licence free in most countries. For North America there are products for the 1.9 GHz UPCS band. The system allows up to 9 persons to communicate in full duplex conference and more than 40 persons listening with possibility to break in to the conference at any time. "All Call" is possible between all DECT-Com II users / bases in range. Possibility for 3 different conference groups on one base or to connect 2 external communication systems; communication radios or telephones. The base/portable and the Extensionbase / portable unit can act as a base unit or a portable unit depending on start up sequence. There is possibility to implement optional functions for different situations. The power supply unit can also be used as a bracket for fixed or mobile use. Antenna attachment in a chassis connector makes it possible to alternatively use an external omnidirectional vehicle antenna.

- Working range typ. 250 meters from the portable unit to the base
- All Peltor™ standard headset with Peltor™ J11 connectors works (Not NATO wired headset)
- Voice activated "noise gate" for suppression of surround sound, (VOX)
- Conversation time up to about 40 hours (portable unit), 6 hours (base unit) with rechargeable battery (DC2033)
- Belt clip
- With the Extension Base / Portable unit you can connect an external radio
- Security by digital transmission with initial identification procedure

Description

DECT-Com II Base unit
DECT-Com II Portable
DECT-Com II Extension Base / Portable

3M product code

XH001675954
XH001675947
XH001675962

Reference Id

DC2812
DC2811
DC2815

Spare parts for DECT-Com II:

Description

DECT-Com II mains adapter
DECT-Com II Charger / Holder, IP42, incl DC2061
DECT-Com II Battery carrier for 6xAA batteries
DECT-Com II Rechargeable battery pack, NiMH 2100 mAh
DECT-Com II Antenna, omnidirectional with magnetic foot
DECT-Com II Power supply / holder

3M product code

XH001675871
XH001675897
XH001675764
XH001675772
XH001675855
XH001677232

Reference Id

DC2061
DC2064
DC2032
DC2033
DC2046
DC2068

Adapter cables for DECT-Com II:

Description

Adapter cable for Icom, straight connector
Adapter cable for Motorola GP340
Adapter cable for Motorola Mototrbo
Other cables on demand.

3M product code

XH001676341
XH001676358
XH001676366

Reference Id

DC2-5001
DC2-5030
DC2-5063

Please contact the lokal 3M company to get mor information regarding this product.

3M™ Peltor™ Lite-Com Solutions



PELTOR™

Peltor™ Lite-Com™ III

Built-in Two-way Communication Headset



MT53H7A440B

- Available in two versions; with 8 channels in the PMR 446 MHz band or with 69 channels on the LPD 433 MHz band (A users license may be required)
- On the PMR channels 38 subchannels allow several user groups to communicate without listening to other groups on the same channel
- Built-in active-sound function lets you hear ambient sounds; warning signals, machine sounds, conversation etc, while sudden impulse noise at harmful levels are immediately attenuated
- An electronic voice in the receiver tells you the settings of the device
- LCD display to visualize advanced and standard settings
- Separate PTT button for the auxiliary input, where a cellular phone, a com. radio, or other audio source can be connected
- Unused, Lite-Com III switches off automatically to save the batteries

Description	3M product code	Reference Id	Attachment	Weight (g)	Colour	NSN number
Electret mic LPD 433 MHz	XH001653100	MT53H7A430B	Head band	436		5965-25-150-9666
Electret mic PMR446 MHz	XH001653118	MT53H7A440B	Head band	436		5965-25-150-9671
Dyn.mic LPD 433 MHz	XH001662069	MT7H7A430B	Head band	436		
Dyn.mic PMR 446 MHz	XH001662085	MT7H7A440B	Head band	436		

MT53H7A430B

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	19.9	29.0	32.5	32.4	37.4	38.7
Standard Deviation (dB)	2.6	2.0	4.2	3.0	4.2	4.4	3.2
Assumed Protection (dB)	13.9	17.9	24.8	29.5	28.2	33.0	35.5

According to EN352-1:2002

SNR=29dB H=30dB M=26dB L=20dB

Peltor™ WS Lite-Com™

Built in communication radio and Bluetooth®



3M™ Peltor™ Lite-Com™ communication headsets have a communication radio built into a highly attenuating ear protection. In the WS Lite-Com, there is also a Bluetooth link for connecting the headset to a mobile phone or another audio device with Bluetooth® functionality. Stereo microphones pick up the ambient sound which is reproduced inside the shells, while a level dependent surround sound function is effectively limiting impulse sounds to avoid hearing damage.

Included in the package

WS Lite-Com headset
Rechargeable battery
Alkaline batteries
Hygiene kit

Description	3M product code	Reference Id	Attachment	Weight (g)	NSN number
WS Lite-Com™, PMR 446 MHz	XH001677026	MT53H7A4410WS5	Head band	464g (incl.	

MT53H7A4410WS5 (headband)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.5	23.3	31.2	35.6	35.0	36.5	40.9
Standard Deviation (dB)	2.6	2.3	2.0	3.2	3.4	3.4	3.3
Assumed Protection (dB)	13.0	21.0	29.2	32.4	31.6	33.2	37.6

According to EN352-1:2002

SNR=31dB H=33dB M=29dB L=21dB



Passive Headsets



PELTOR™

Headbands



Headband (A)

Stainless spring steel. Soft padded cushion – comfortable even during long-term use.



Neckband (B)

Combines with other protective equipment, such as welding shield.



Folding headband (F)

Takes little space in toolbox or pocket. Sealing rings are protected against soiling and damage.

Cup size



Low Attenuation

Fits under combat helmet.

SNR 25-26dB(A) (Depending on model)



Medium Attenuation

SNR 30-31dB(A) (Depending on model)



High Attenuation

SNR 31-35dB(A) (Depending on model)



Photo: Peter Nilsson

PELTOR™

Military Headset Combinations

Helicopter Rescue (MT21H61FA)

Headset specially made for the rescuediver. This headset makes it possible for the rescue diver to communicate with the crew in the helicopter during his mission when he is in the water. The headset is build to stand the environment in the water both under and above the surface. This headset makes it possible to make the mission to go faster and give the rescudiver a much safer mission.

When the mission goes faster it possible to save more people and do it faster (save money and lives).



Twin-Cup High Attenuation (MT72H10F-38)

NSN number: 5965-25-150-9672

- Extra high-attenuating twin shells with optimised acoustic design and excellent space for the ears for the best possible sound quality and comfort
- Effective noise cancelling microphone for clear and reliable communication
- Quick Positioning integrated microphone boom for easy handling
- Soft, wide, foam and fluid-filled ear cushions and individually sprung head band wires of stainless sprung steel provide an even and consistent distribution of pressure around the ears for the best possible comfort
- Overhead and helmet-attached versions to meet most users' requirements



High Attenuation (MT7H79F-38)

NSN number: 5965-25-150-9674

- High-attenuating shells with optimised acoustic design and excellent space for the ears for the best possible sound quality and comfort
- Effective noise cancelling microphone for clear and reliable communication
- Quick Positioning integrated microphone boom for easy handling
- Soft, wide, foam and fluid-filled ear cushions and individually sprung head band wires of stainless sprung steel provide an even and consistent distribution of pressure around the ears for the best possible comfort
- Standard J11 connection (Nexus TP-120)
- Beam-mounted earphones that provide the least possible resonance and distortion for excellent sound reproduction even in very high-noise environments
- Numerous configurations. Overhead, neckband and helmet-attached versions to meet most users' requirements



Medium Attenuation (MT7H61FA-38)

NSN number: 5965-25-150-9673

- Low-profile shells for easy, comfortable use together with other PPE devices
- Low weight
- Effective noise cancelling microphone for clear and reliable communication
- Quick Positioning microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions and individually sprung head band wires of stainless sprung steel provide an even and consistent distribution of pressure around the ears for the best possible comfort
- Beam-mounted earphones that provide the least possible resonance and distortion for excellent sound reproduction even in high-noise environments
- Available in standard version with J11 (Nexus TP-120) connector. Also available in a direct-connected version on request.
- Choose between Head- or neck band





PELTOR™

No Attenuation (MT32H02-38)

NSN number: 5965-09-510-1371

- Very high comfort due to a broad Head band of sprung stainless steel, which ensures even pressure
- Replaceable padding
- Built-in air ducts
- Continuous height adjustment
- Load-relieving cord clip
- Standard version with J11 connector
- Available in single sided or dual earphones
- Not CE approved as hearing protection device



Ground crew headset (special made on request)

Headset made to be in very high noise around jetfighters. In such a high noise hearing loss can be caused in just seconds. The headset has secure straps so it can't slip away from the position on the head.

For more information please contact the Technical Com. service in Varnamo.



Waterproof Headset for Helmet (special made on request)

FL55-T9149

Headset made to be build into rescue helmets. Direct connection to radio.

This application is used by the Swedish Sea Rescue, using direct connection to ICOM IC-MI / M70.

(Helmet not included)



Example of assembly

3M



Heat Stress Monitors

Durable and Accurate Heat Stress Analysis

Industry-Leading Technology and Design

Heat Stress prevention begins with the accurate measurement and analysis of heat stress in the workplace and performance training environments. 3M™ Heat Stress Monitors provide safety professionals with the durable, easy-to-use instrumentation needed to identify, measure, analyze and monitor heat stress related exposure levels – primary activities in the four-step process of protecting employees, athletes, and others at risk of heat stress:

- + 1. Identify
- + 2. Monitor
- + 3. Control
- + 4. Protect

3M™ QUESTemp® series covers a broad range of heat stress monitors, making it easy to select an instrument that meets the needs of different users and environments. From manufacturing to hazardous duty to performance training and military applications, there is a QUESTemp® monitor suited to your application.



3M™ QUESTemp° Series Heat Stress Monitors

The QUESTemp° Series area heat stress monitors are designed to quickly and accurately evaluate potential heat stress environments. These rugged instruments deliver high performance monitoring through WBGT (Wet Bulb Globe Temperature) sensing technology and the calculation of a WBGT Index value. An optional air probe enables the calculation of PMV/

PPD thermal comfort indices. These innovative instruments are designed for the rigors of the workplace, with easy-to-use features, intrinsic safety certification and advanced reporting capabilities.

Features and Benefits:

- + Models with intrinsic safety certification
- + Long battery life and robust construction
- + Data logging capabilities for enhanced reporting and measurement
- + Multilingual display (English, French, German, Italian, Spanish)
- + Real-time clock provides accurate reporting with time stamping
- + Convenient stay time display per multiple standards
- + Optional remote sensor bar allows for simultaneous monitoring of up to three areas
- + Optional air probe accessory for calculation of PMV/PPD thermal comfort indices
- + Download data to NEW! Detection Management Software DMS or existing QuestSuite™ Professional II for analysis and data management

Reduced Maintenance with Innovative Waterless Wet Bulb Sensing Technology

The QUESTemp° 44/46/48N utilizes a Waterless Wet Bulb sensor designed for working environments where daily instrument upkeep is difficult. A high-quality humidity sensor and a proprietary algorithm perform the calculation of the WBGT values eliminating the hassle of daily wet bulb maintenance.



Six Models to Choose From

QUESTemp° Natural Wet Bulb Models
 + QT-32
 + QT-34
 + QT-36

QUESTemp° Waterless Wet Bulb Models
 + QT-44
 + QT-46
 + QT-48N

+ QUESTemp° 44 with Waterless Wet Bulb technology



+ QUESTemp° 36 shown with optional air probe

For more information regarding 3M™ QUESTemp please contact 3M UK



Joining Forces for Your Safety

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 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



Noise Measurement & Heat stress monitors



Find out more and visit our Website www.3M.EU/Safety

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