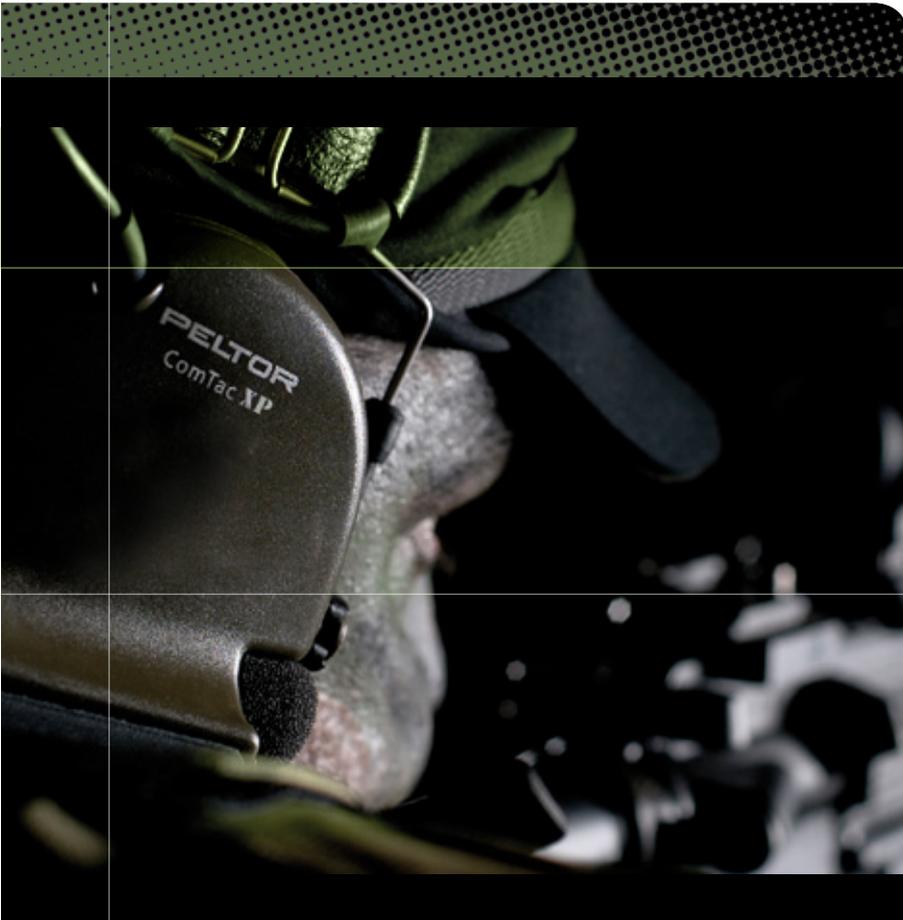


3M Occupational Health & Environmental Safety Division
3M™ Military Applications



Military Applications



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.

The Peltor™ branded communication equipment and hearing, head and face protection products, which now form part of the 3M product portfolio, are renowned world wide. 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 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 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™ branded 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 vital, both for exercises and actual combat situations. 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

3M provide the appropriate equipment regardless your mission. From the 3M™ E-A-R™ Classic™ earplug for optimum attenuation and best comfort, to complex communication systems adapted for army, navy and airforce.



Military Applications

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, 3M™ Peltor™ Communication Products sharpens your hearing.



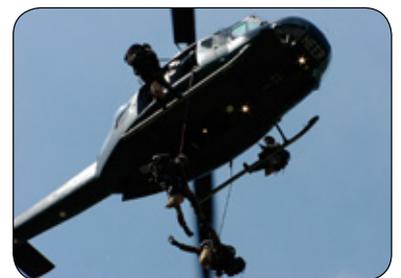
3M™ Peltor™ Standard System, a communication standard

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.

3M™ 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 on the market.

3M, hearing protection all over the world

3M 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.





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 considered impossible by many optical experts, for example distortion free sight and 180° of vision.

3M's 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 high 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™ Peltor™ Nighthawk Goggle



3M Id:	Peltor Id:
N/A	N/A

The most advanced combat eyewear system ever created. The Peltor Nighthawk Goggle provides superior design, clarity, adaptability, comfort and ease of use while providing a full 180° view for better peripheral vision and protection. Interchangeable goggles and spectacles with clear and gray anti-fog lenses and advanced Zeiss optics are built specifically to provide protection from sand, dirt, and debris.

- Meets Military Vo Regimen for High Velocity Impact Protection
- Universal prescription insert available
- Night vision compatible
- Soft attachable protective case included

3M™ Peltor™ Sentinel TacPack



3M Id:	Peltor Id:	NSN Number:
GT600010091	(71510-00003CP)	N#A

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)
- Special comfortable removable foam gasket, highly shock resistant to 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

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 = 92%
- Amber lens for low light condition (cloudy environment enhance the contrast and luminosity). VLT = 87%
- Gray lens for outdoor use (sunny condition). VLT = 16%

CERTIFIED

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



PELTOR™

3M™ Peltor™ Maxim Ballistic TacPack



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
- Short flat replacement temples for better fit under helmets
- 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 perfect field of vision)
- Optical quality class 1 (no distortion)
- Resistance to Vo Test Regimen for high velocity impact (standard MIL-STD 662 – impact at 198m/s): 0.150 caliber T37 projectile
- Resistance to impact at extreme temperature (marking FT)
- UV filtration (in conformity with EN 170)
- DX coating : anti-fog, anti-scratch, anti-static and anti-chemical attack
- Clear lens for indoor use. VLT = 92%
- Amber lens for low light condition (cloudy environment) (enhance the contrast and luminosity). VLT = 88%
- Dark grey lens for outdoor use (sunny condition) VLT = 13%

Description	3M Id:	Peltor Id:	NSN number:
Maxim Ballistic TacPack	GT600008947	(13204-99999A)	8465-99-958-2617
Insert	70071530656	(40719-00000)	

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

3M™ Peltor™ Fahrenheit TacPack



CASE

- Black Nylon case for the complete kit : with zipper, 2 velcro belt loop + one removable and adjustable strap
- Black Nylon case for the cover lenses. With 2 zippers (one grey for the yellow lens and one black for the dark grey lens). Velcro on the back. Removable strap
- 1x Lycra lens cover to protect the lens from scratching

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
- Temporal notch to fit with the temples of a prescription frame
- Large adjustable nylon head strap (38mm) with polyamide side attachment with special angle to fit over military helmet
- Silicone grip on headstrap to avoid it slipping of ballistic helmet
- Frame design specifically made to have 180° of field of vision
- Resistance to Vo Test Regimen for high velocity impact (standard MIL-STD 662 - impact at 168m/s with a projectile T37 0,220 inch caliber).

BASE LENS : CLEAR DUAL PANEL LENS

- 2 single lens bonded together with a 2mm space between them to create an 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 Vo Test Regimen for high velocity impact (standard MIL-STD 662 - impact at 168m/s with a Projectile T37 0.220 inch diameter).
- 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
- Conform to ANSI Z87.1, EN166 and EN170 (UV)
- Lens marking = 2C-1,2 3M 1 BT (VLT = 88%)
- NEW revolutionary "clip-on" easy cover lens installation.
- The lens cover can be installed even in the dark in a few seconds.

3M Id:	Peltor Id:	NSN number:
GT600002270	(71360-99999)	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, Yellow tint (shade 5-1,4)
- 1x Cover lens with holder, Dark Grey tint (shade 5-4,1)
- 1x Microfiber cleaning tissue 17,5cm x 17,5cm, washable



PELTOR

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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. 3M 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 Earplug.



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

3M™ 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.



Passive Hearing Protection



PELTOR™



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

	3M Id:	Peltor Id:	NSN number:
Nordic :	XH001673348	H515FB-508-GN	4240-09-510-1162
Non Nordic :	XH001658265		4240-09-510-1162

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™ 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

	3M Id:	Peltor Id:	NSN number:
	XH001658562	(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™ Peltor™ Optime™ III Hi-Viz Passive Hearing Protector

Same attenuating abilities as the Peltor™ Optime™ III. Hi-Viz green hearing protector 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

	3M Id:	Peltor Id:
	XH001650890	(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

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

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	26.3	27.7	26.4	28.2	26.3	31.2	36.2	40.2
Standard Deviation (dB)	5.8	6.7	6.6	7.2	6.2	5.3	8.6	7.6
Assumed Protection (dB)	19.3	18.6	17.6	20.5	20.2	25.2	27.4	31.8

Description	3M Id:	Peltor Id:	NSN number:	Steady State mode SNR=25dB H=26 M=22 L=20 Combat mode SNR=7dB H=9dB M=4dB L=2dB
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)		

3M™ E-A-R™ Combat Arms™

Passive Hearing Protector, single ended



The ISL non linear ear-plug is designed specifically for use by military personnel in active service. The intention is to minimize attenuation at normal noise levels but provide protection from very high impact noise levels that result from discharges from small arms and artillery. The attenuation according to the EN 24869-1 test method (subjective testing as required by EN352).

From this we can calculate the following: **H = 9, M = 4, L = 2 SNR = 7**

At 110dB the ISL plug reduces the noise level by approximately 8dB, this then rises to 25dB at a peak pressure of 190dB, about the same as we would achieve with a 3M™ E-A-R™ Classic™ foam Ear-Plug.

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

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	4.7	4.2	6.0	9.5	16.7	16.3	17.2	4.7
Standard Deviation (dB)	4.0	4.3	5.0	6.7	4.9	5.8	6.8	4.0
Assumed Protection (dB)	0.7	-0.1	1.0	2.8	11.8	10.5	10.4	0.7

SNR=7dB H=9dB M=4dB L=2dB

Description	3M Id:	Peltor Id:	NSN number:
Yellow colour	70071544392	(UM-02-000)	6515-99-366-5811
Skin colour	N/A	(UM-02-002)	
Skin colour with shorter stem	GT600007386	(UM-01-005)	





3M™ E-A-R™ Classic™ Passive Hearing Protector



3M Id:	Peltor 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.

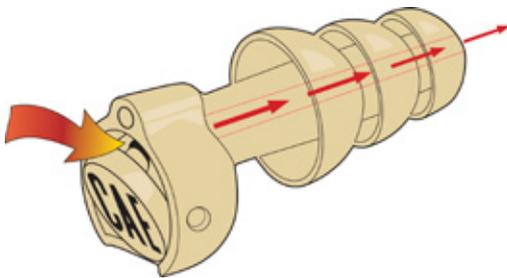
E-A-R™ Classic™ small earplugs are also available for users who are looking for all the benefits of the E-A-R™ Classic™ Earplugs but who want greater comfort in smaller ear canals.

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™ 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.

E-A-R™ 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 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:	Peltor Id:	NSN number:
Single-Sided CAE (small)	!!NEW!!	70071561511	(370-1030)	6515-01-576-8837
Single-Sided CAE (medium)	!!NEW!!	70071561529	(370-1031)	6515-01-576-8861
Single-Sided CAE (large)	!!NEW!!	70071561537	(370-1032)	6515-01-576-8869





Tactical Solutions

The 3M™ Peltor™ Tactical range of products are invaluable tools for people who are subjected to impulse noises. 3M™ 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	3M product code	Peltor product code	Attachment	Weight (g)	Colour
Hunting, orange shells incl.	XH001650049	MT16H210F-478-GN	Foldable head band	318	 
Sport shooting, black shells incl.	XH001650056	MT16H210F-478-RD	Foldable head band	318	 

MT16H210F-478-GN

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.1	17.9	27	26.8	30.5	38.3	36.4
Standard Deviation (dB)	4.3	3.1	3.8	3	3	3.7	5.4
Assumed Protection (dB)	7.8	14.8	23.2	23.8	27.5	34.6	31

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

MT16H21FWS5*-*****

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	11.1	18.2	27.0	23.8	33.4	37.7	38.9
Standard Deviation (dB)	2.6	2.3	2.2	2.1	3.6	2.2	3.3
Assumed Protection (dB)	8.5	15.8	24.8	21.7	29.8	35.5	35.5

SNR=26dB H=29dB M=23dB L=19dB



3M™ Peltor™ Tactical Solutions



PELTOR™

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



MT15H7A2 GN

- Improves communication
- 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	Peltor product code	Attachment	Weight (g)	Colour	NSN number
Standard	XH001650015	MT15H7A2 GN	Head band	370	 	4240-25-150-9650
Standard	XH001650031	MT15H7A2 SV	Head band	370	 	4240-17-120-6485
Standard	XH001650023	MT15H7A2 RD	Head band	370	 	4240-25-150-9651

MT15H7A2 **

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	19,7	25,4	31	34,6	32,2	38,7	42,1
Standard Deviation (dB)	3,4	2,5	3,4	1,8	3,6	3,8	3,6
Assumed Protection (dB)	16,3	22,9	27,6	32,8	28,6	34,9	38,5

SNR=32dB H=31dB M=29dB L=24 dB



PELTOR™

3M™ Peltor™ Tactical™ XP Headset

Electronic Level Dependent Hearing Protector



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	Peltor product code	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	34,4	36,7

SNR=31dB H=32dB M=25dB 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	34,4	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





ComTac™ Solutions

You protect us - we protect you

The 3M™ Peltor™ ComTac™ Electronic Level Dependent product range are invaluable tools for people who are subjected to impulse noises. Peltor™ ComTac™ Electronic Level Dependent 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 28dB
- 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

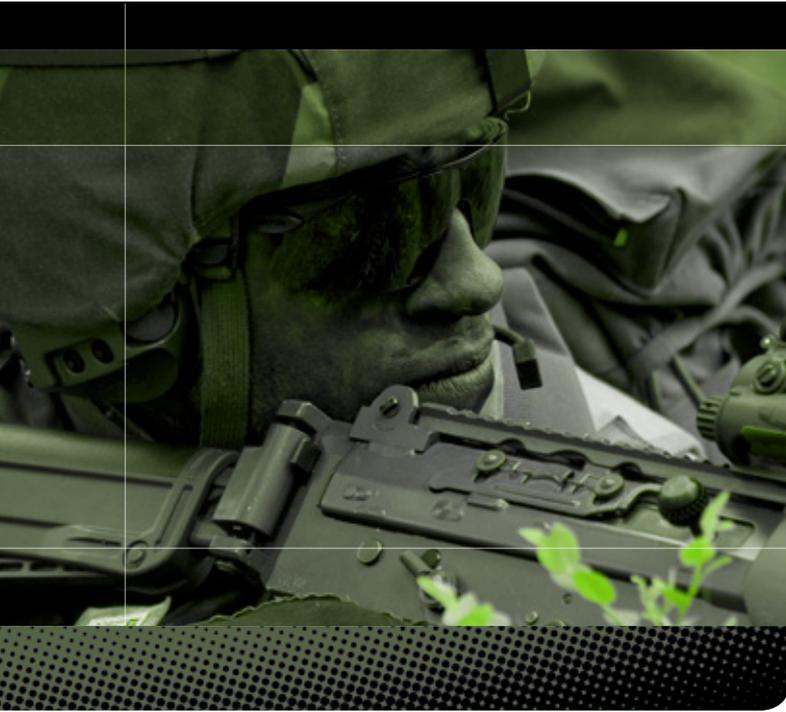
MT17H682FB-02

Description	3M product code	Peltor product code	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

SNR=28dB H=31dB M=25dB L=16dB



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-compensated 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
- 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	Peltor product code	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-neck mic.	XH001668603	MT17H682FB-68	Foldable Head band	335		5965-09-510-1467
Headset J11 goose-neck 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

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	2.5	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

SNR=28dB H=31dB M=25dB L=18dB





PELTOR™

3M™ Peltor™ ComTac™ XP Headset

Bone Conduction Microphone



- Slim cup design
- SNR of 28
- 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	Peltor product code	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

SNR=28dB H=31dB M=25dB L=16dB





Mission Essential Products

Through the Peltor™ and E-A-R™ product ranges 3M provide the appropriate equipment regardless your mission.

From the 3M™ E-A-R™ 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 3M™ Peltor™ headsets to communication radios and mobile telephones. For environments with risk of explosion, we also have ATEX-approved EX adapters.

Customized Adapters



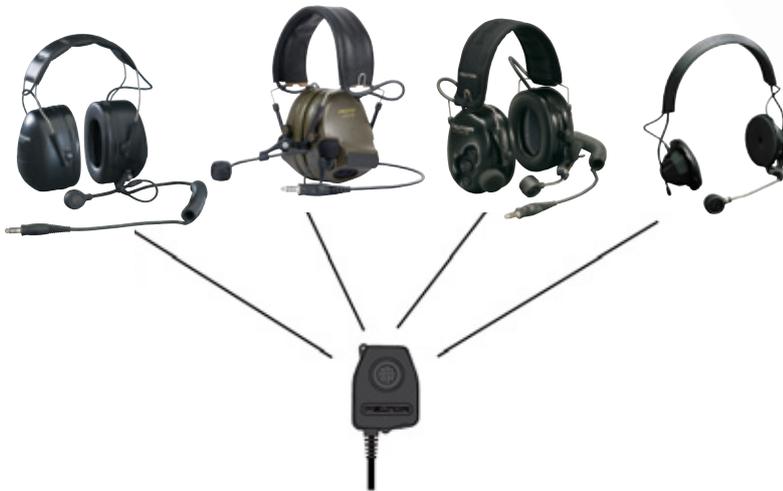
PELTOR™

Adapter Single PTT

The new 3M™ 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

3M™ Peltor™ Military Solutions



PELTOR™

Standard Adapters

3M product code	Peltor code	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
XH001665047	FL5019	5965-25-150-9683	Motorola Expo, Maxon Slim line
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
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
	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	Peltor code	NSN number	Communication radio
XH001654223	FL5040		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.

3M™ Peltor™ Military Solutions



PELTOR™

Headset and Adapters for Military radios, "NATO" wiring

3M product code	Peltor code	NSN number	Description
	MT17H682FB-86	N/A	Headset J11, "NATO" wiring
	MT17H682FB-86 SV	N/A	Headset Black J11, "NATO" wiring
	MT17H682BB-86	N/A	Headset J11, Neckband "NATO" wiring
	MT17H682BB-86 SV	N/A	Headset J11, Neck band "NATO" wiring
	MT17H682P3AD-86	N/A	Headset with rails attachment for exampel OPS-core helmet, "NATO" wiring
	MT17H682FB-87	N/A	Headset w goose neck mic, "NATO" wiring
	MT17H682FB-87 SV	N/A	Headset Black w goose neck mic, "NATO" wiring
	MT17H682FB-19B	N/A	Headset for dubble communication w goose neck mic, "NATO" wiring
	MT72H10F-86	N/A	Twin-Cup High Attenuation Headset, J11, "NATO" wiring
	MT7H79F-86	N/A	High Attenuation Headset, J11, "NATO" wiring
	MT32H02-86	N/A	No Attenuation Headset, J11, "NATO" wiring
	FL5040-07	N/A	Adapter for MBITR 2M, AN/PRC-148, "NATO" wiring
	FL5052-02	N/A	Adapter for Thales PR4G, "NATO" wiring
	FL5030-02	N/A	Adapter for Motorola GP340
	FL5018-02	N/A	Adapter for Motorola GP900, XTS3000, XTS5000
	FL5601-100	N/A	Adapter for Harris 7800, J11, "NATO" wiring

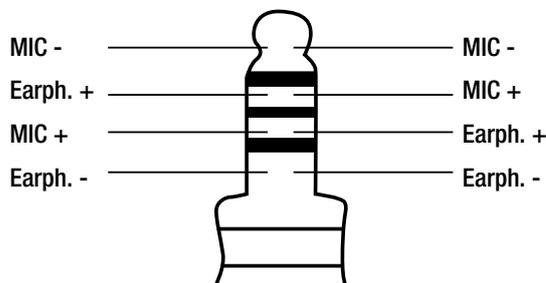


MT17H682P3AD-86

Difference between "NATO" and "Peltor" Standard

"NATO" wiring

"PELTOR" STAND wiring



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

Special Headset and Adapters for Military radios

3M product code	Peltor code	NSN number	Description
N/A	MT17H682FB-88	N/A	Headset Stereo connected J11, with MT7N mic. (Only for FL5501 and FL5701 adapter)
N/A	FL5501	N/A	Dubble adapter for MBITR 2M, AN/PRC-148 (Only to MT17H682FB-88 Headset)
N/A	FL5701	N/A	Dubble adapter for MBITR 2M, AN/PRC-148 (Only to MT17H682FB-88 Headset)

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





Spare Parts & Accessories



PELTOR™



M42/1



HY79
NSN number: 5965-66-146-0146



HYM1000



MT7N 900



M60/2



MT21 900



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

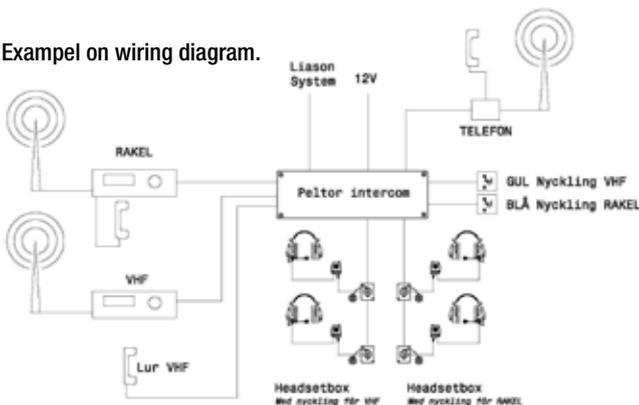


T8034A

- The Peltor vehicle intercom is an intercom system based on 3M™ Peltor™ Rally Amplifiers
- The system is designed for use in vehicles on land and sea, combining full-duplex communication with connectivity to a mobile station/com radio(s)
- The Peltor 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	Peltor product code	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™ Full Duplex Wireless Intercom



DC2815 with DC2064



DC2811

3M™ Peltor™ DECT-Com II™ Full Duplex 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 DECT-com II main units are available in a Military version. The base/portable and the military 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 battery charger 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 about 300 meters from the portable base unit
- Fits all 3M™ Peltor™ Standard Headsets using 3M™ Peltor™ J11 connectors
- Voice activated transmission, VOX,
- Conversation time up to about 55 hours (portable unit), 6 hours (base unit) with rechargeable battery (DC2033)
- Belt clip
- With the Military Base / Portable unit you can connect an external radio
- Security by digital transmission

Description	3M product code	Peltor product code
DECT-Com II Base unit	XH001675954	DC2812
DECT-Com II Portable	XH001675947	DC2811
DECT-Com II Military Base / Portable	XH001675962	DC2815

Spare parts for DECT-Com II:

Description	3M product code	Peltor product code
DECT-Com II mains adapter	XH001675871	DC2061
DECT-Com II Charger / Holder, IP42, incl DC2061	XH001675897	DC2064
DECT-Com II Battery carrier for 6xAA batteries	XH001675764	DC2032
DECT-Com II Rechargeable battery pack, NiMH 2100 mAh	XH001675772	DC2033
DECT-Com II Antenna, omnidirectional with magnetic foot	XH001675855	DC2046
Wireless PTT transmitter unit, WW, Channel 1, encapsulated	XH001676374	WLTX-B

Adapter cables for DECT-Com II:

Description	3M product code	Peltor product code
Adapter cable for Icom, straight connector	XH001676341	DC2-5001
Adapter cable for Motorola GP340	XH001676358	DC2-5030
Adapter cable for Motorola Mototrbo	XH001676366	DC2-5063

3M™ Peltor™ Lite-Com™ Solutions



PELTOR™

3M™ 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
- 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, 3M™ Peltor™ Lite-Com™ III Built-in Two-way Communication Headset switches off automatically to save the batteries

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

MT53H7A430B

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	20.7	31.4	33.7	34.5	38.4	37.2
Standard Deviation (dB)	2.4	2.3	1.8	3.3	2.2	3.1	4.7
Assumed Protection (dB)	14.1	18.4	29.6	30.4	32.3	35.3	32.5

SNR=31dB H=33dB M=28dB 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.

Cups



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 31-33dB(A) (Depending on model)



Photo: Peter Nilsson

PELTOR™

Military Headset Combinations

Helicopter Rescue (MT21H61FA)

Headset specially made for the rescuer. 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 built 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 rescuer a much safer mission.



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
- Microphone with effective noise compensation 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
- Microphone with effective noise compensation 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
- Dynamic speech microphone with effective noise compensation 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.

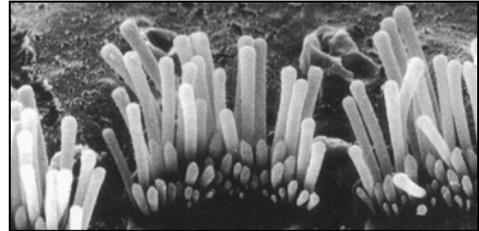
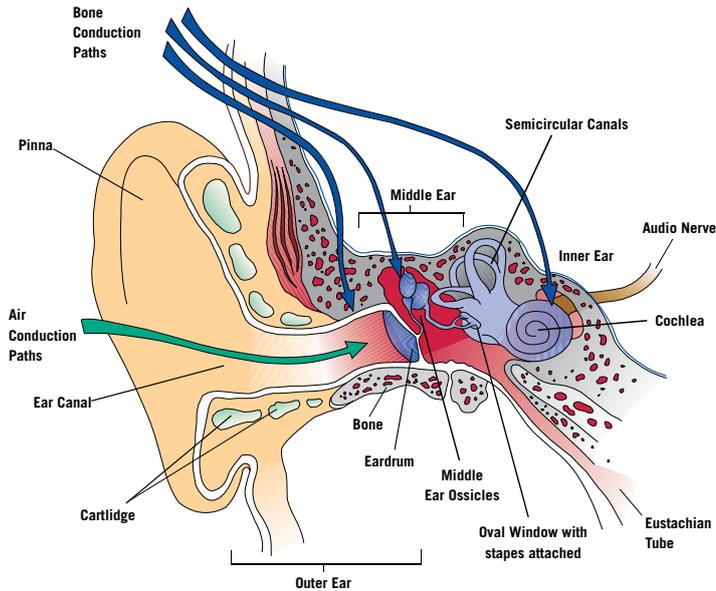
This application is used by the Swedish Sea Rescue, using direct connection to ICOM IC-MI / M70.

(Helmet not included)

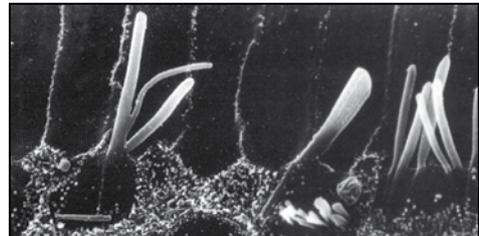


Example of assembly

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.

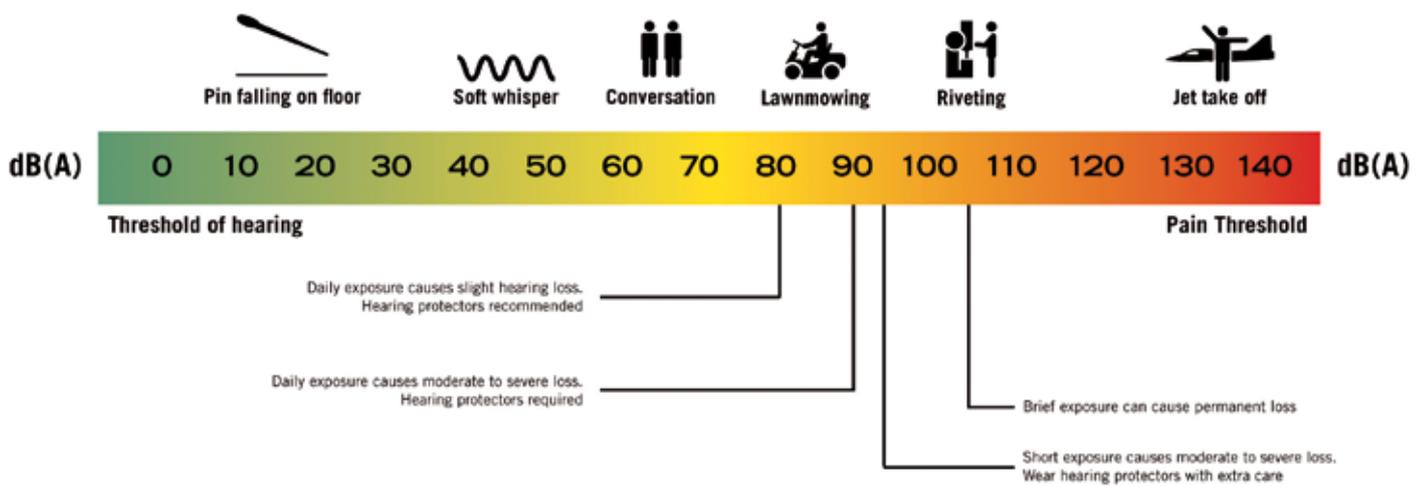
We can only tolerate a limited daily dosage of noise. How harmful the noise is depends on the exposure time in combination with the sound level. Five minutes of carelessness during an eight-hour working day could result in impaired hearing for the rest of your life. Full-time wear is therefore the only 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!

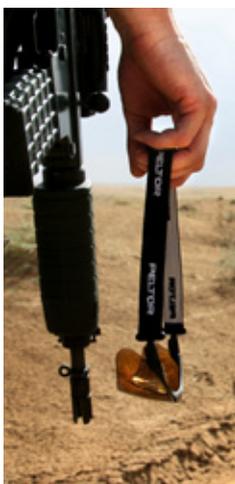
100% Usage

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.

Easy To Damage - Easy To Protect



Advanced Optical Engineering by 3M



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

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 considered impossible by many optical experts. For example the patented Maxim aspherical lens featuring distortion free sight and 180° of Pure Vision.

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

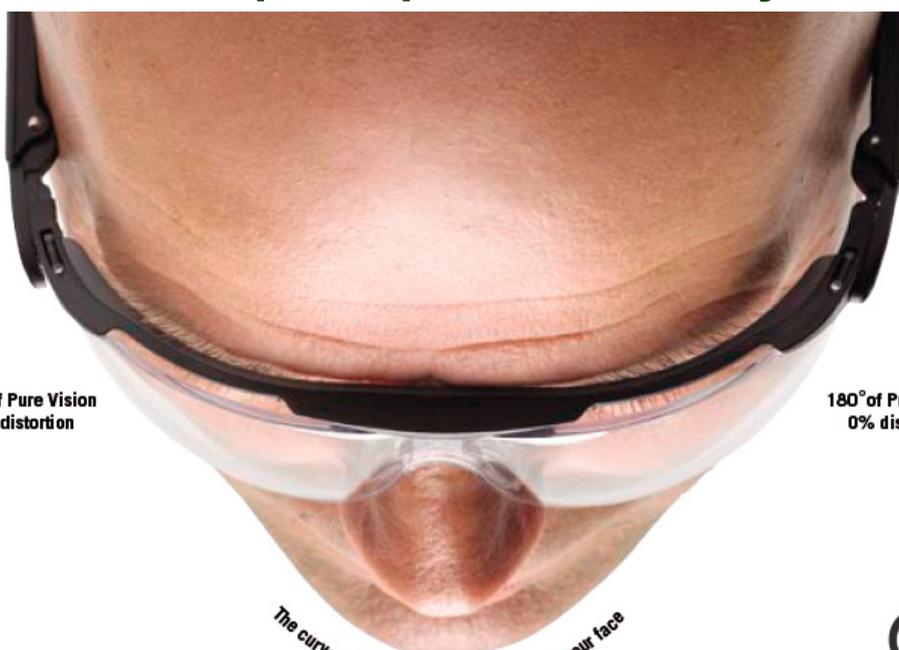
continuously being developed and monitored in order to provide optimum performance.

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. To assist this, we are proud of the nomination of the Maxim model for the German Design Prize 2006, the first time ever that protective eyewear has been considered for this prestigious distinction.

Advanced Optical Engineering makes 3M™ Eyewear products The Optimal Solution.

The unique aspherical lens by 3M

180° of Pure Vision
0% distortion



180° of Pure Vision
0% distortion

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.

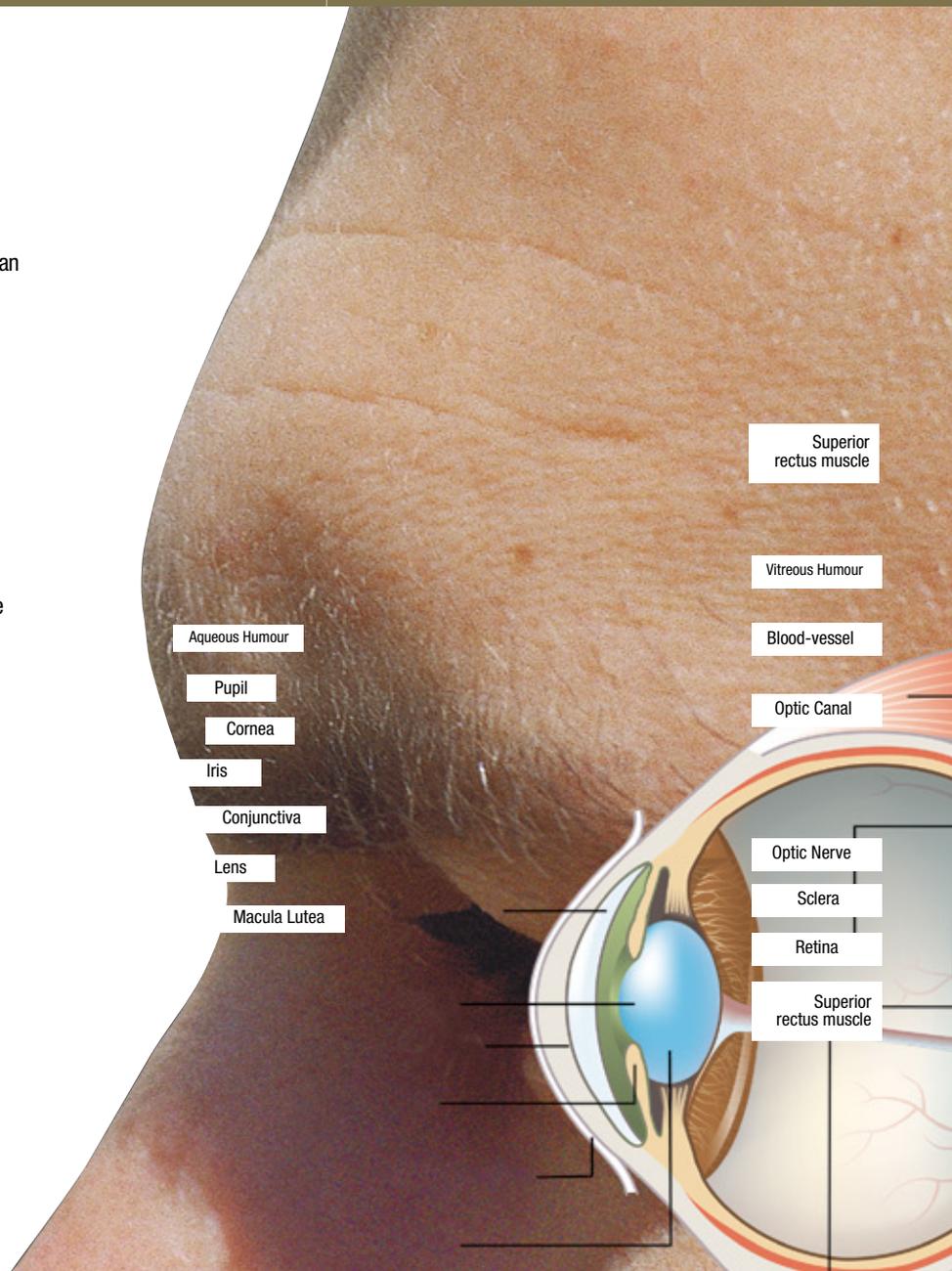
Industrial hazards for the eyes:

- **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	



Joining Forces for Your Safety

More safety from one source

Since 2008, renowned Peltor™ and E-A-R™ branded 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 branded 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



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

ATTENTION! This literature will not serve as basis or data for contracts or quotations





**3M Occupational Health &
Environmental Safety Division
EMEA Region**

3M Svenska AB, Box 2341
SE-331 02 Värnamo
Sweden

Phone: +46 (0) 370 65 65 65
Fax: +46 (0) 370 65 65 99
Internet: www.3M.EU/Safety

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