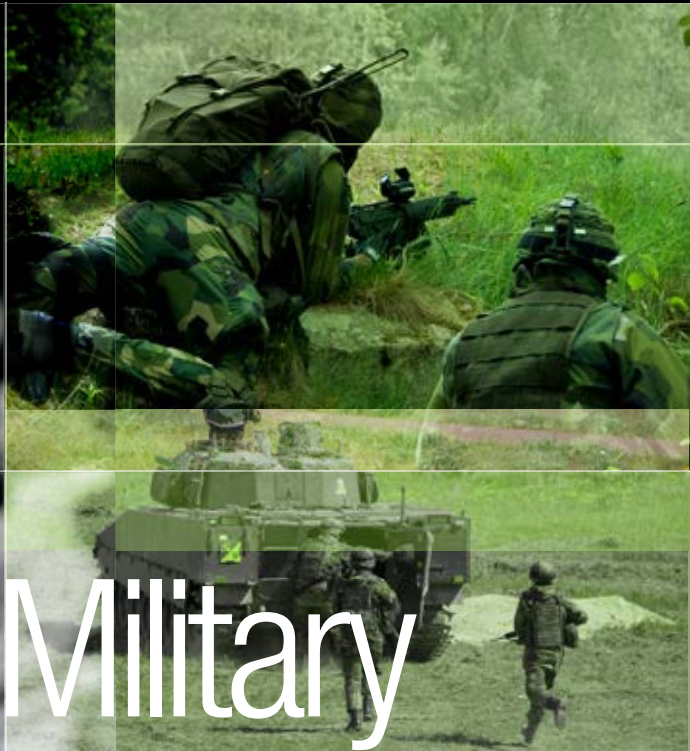
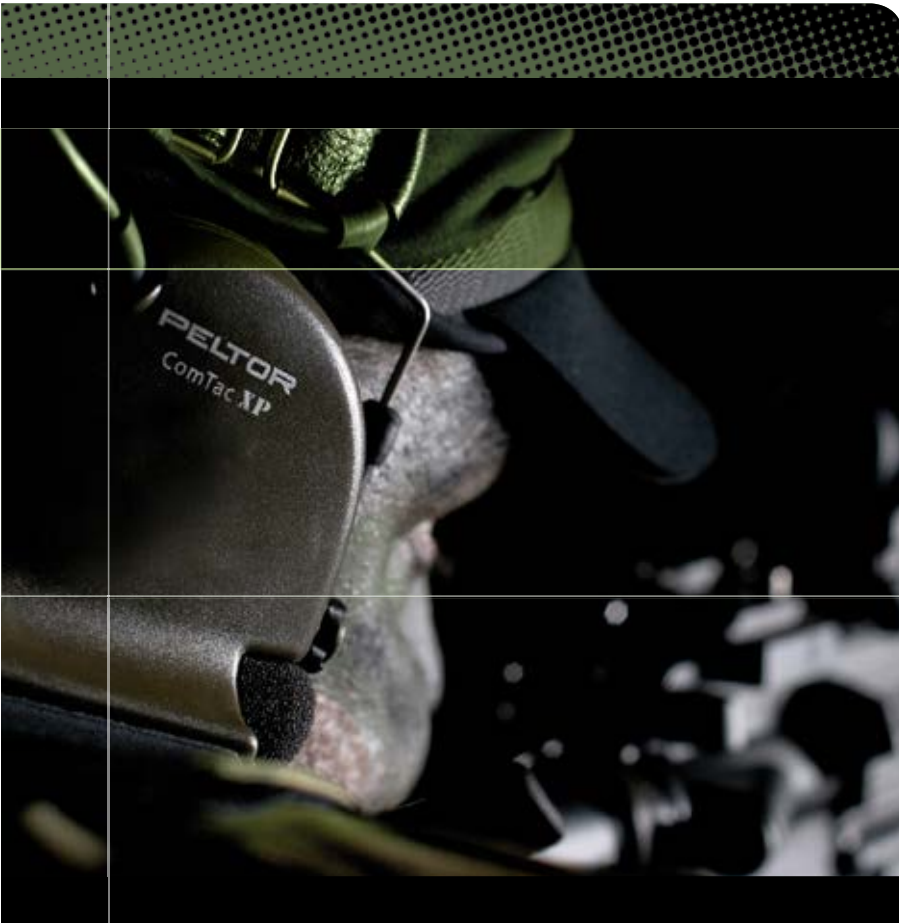


3M Occupational Health & Environmental Safety Division
3M™ Military Applications



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.

PELTOR™ 



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.

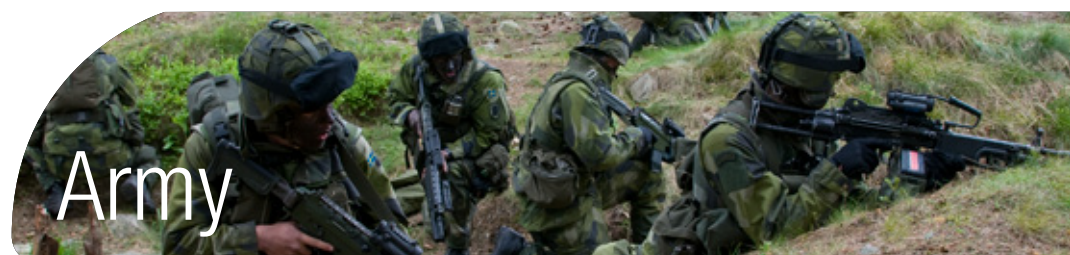


Improves efficiency, reliability and safety

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.





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.

3M™ Peltor™ 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

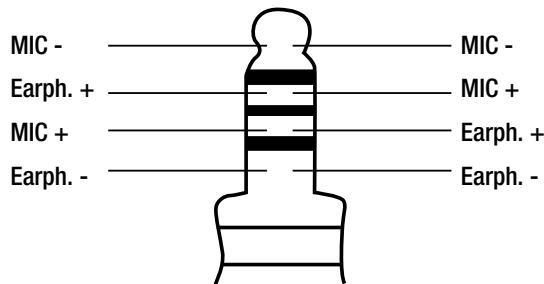


MT17H682P3AD-86

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

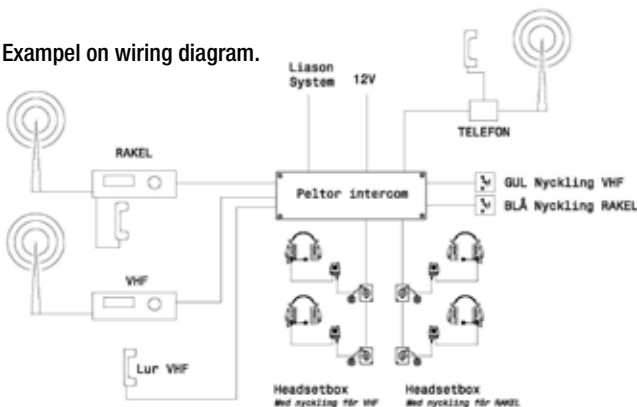


T8034A

- 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

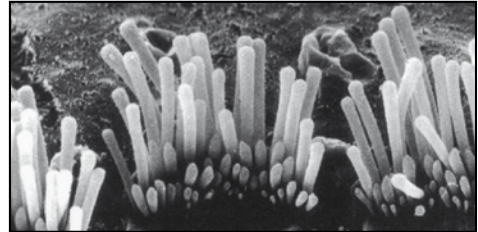
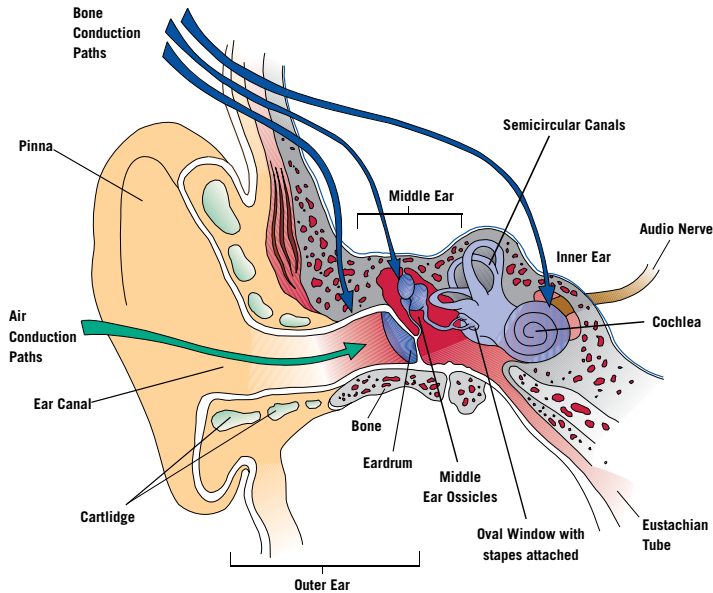
Description	3M product code	Peltor product code	Colour
Max. 4 users, power supply 12V	XH001662374	T8034A	
Headset with J47 contact	XH001661871	MT7H79A-T5086G	
Aviation-Headset, 2m cable with VK01 & J47 contact	XH001660956	MT51H79F-T5086P	
Headsetbox for 1 headset, 5m cable, J47C	XH001655220	FLT-T8035	
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.

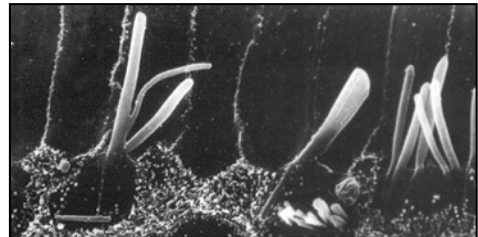


For more information please contact the Technical Com. service in Varnamo.

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.

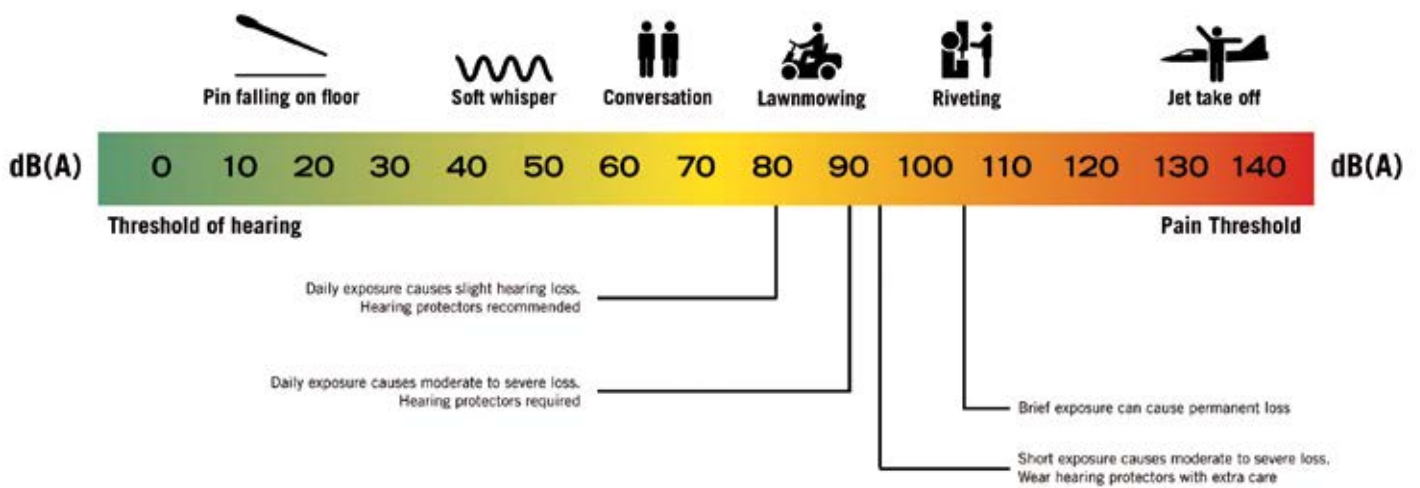
We can only tolerate a limited daily dosage of noise. How harmful the noise is depends on the exposure time in combination with the sound level. Five minutes of carelessness during an eight-hour working day could result in impaired hearing for the rest of your life. Full-time wear is therefore the only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





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