

BENELEC

Professional Wireless Solutions

PELTOR™

3M Occupational Health and Environmental Safety Division
Communications Solutions



Peltor™ Blue-Line

Communication Solutions



The 3M logo in red.

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.



PELTOR™

3M



Peltor™ Blue-Line



Peltor Blue-Line is a series of ATEX products designed for extreme environments. Developed in close collaboration with demanding users, these products have undergone rigorous testing in harsh environments.

The results prove that we can meet the demands and make communication easier and more reliable despite external factors.

The Peltor Blue-Line series is approved under the ATEX directive.

- Headband with individually sprung stainless steel wires for an even distribution of pressure around the ears.
- Two-point fasteners for flexible, continuous height adjustment.
- Dynamic lip microphone that suppresses ambient noise.
- Microphone arm with fast and easy adjustment of distance, length, height and angle.
- Optimal acoustically designed high-attenuating shells that provide even more space for the ears.
- Broad ear cushions filled with fluid and foam provide a good seal and low pressure. The cushions are easy to replace.



- The adapter is built into a functional, watertight, sturdy shell with no protruding parts and is designed to fit the size and shape of a hand.
- Special plastic for ATEX
- The cord reinforcement and chassis jack have been tested to withstand being plugged in, unplugged and bent at least 100,000 times.



Headband



Neckband



Helmet attachment

Peltor Headset

Peltor's ATEX-approved headset and Listen Only headset are designed to ensure clear, reliable communication even in extremely noisy environments, while providing the perfect hearing protection for the situation.

- Microphone with effective noise compensation for clear and reliable communication.
- Quick Positioning integrated microphone boom for easy handling

Models	Connector	Product code	Weight
Folding headband	J11, TP-120	MT7H79F-50	335 g
Neckband	J11, TP-120	MT7H79B-50	300 g
Helmet attachment	J11, TP-120	MT7H79P3E-50	345 g

Headset with 0.4–1.0 m long spiral cord for connection to the Peltor Adapter

Peltor™ Listen Only Headset



EX Class:
Ex II 2 G Ex ib IIC T4

- 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 very high-noise environments

Models	Connector	Product code	Weight
Folding headband	3,5 mm Mono	HTM79F-50	310 g
Helmet attachment	3,5 mm Mono	HTM79P3E-50	320 g
Helmet attachment	2,5 mm Mono	HTM79P3E-53	320 g
Helmet attachment	3,5 mm Screw-in	HTM79P3E-54	320 g

Listen-Only headset, with 0.75–1.4 m spiral cord with moulded contact for connection to an EX-approved radio.

MT72H540F-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.9	24.4	32.7	35.3	33.3	41.0	39.4
Standard Deviation (dB)	2.3	1.8	1.7	2.6	2.7	3.0	3.2
Assumed Protection (dB)	16.6	22.6	31.0	32.7	30.6	38.1	36.2

SNR=33 H=33 M=31 L=24

MT72H540P3E-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.9	27.3	34.0	35.8	31.5	40.5	36.5
Standard Deviation (dB)	3.3	3.6	4.2	2.9	3.0	4.7	4.0
Assumed Protection (dB)	14.6	19.7	29.0	32.9	28.5	35.8	32.5

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



EX Class:
Ex II 2 G Ex ib IIC T4

MT7H79F-50

MT7H79B-50 MT7H79F-50 HTM79F-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17,2	26,4	33,9	37,2	35,4	33,2	37,0
Standard Deviation (dB)	3,1	2,5	2,7	2,3	2,6	2,4	2,0
Assumed Protection (dB)	14,1	23,9	31,2	34,9	32,8	30,8	35,0

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

MT7H79P3*-50 HTM7P3E-**-

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17,7	27,1	33,8	38,1	36,2	33,6	37,1
Standard Deviation (dB)	2,9	2,1	2,4	2,6	2,3	2,5	2,2
Assumed Protection (dB)	14,8	25,0	31,4	35,5	33,9	31,1	34,9

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

Peltor™ Twin Cup Headset



EX Class:
Ex II 2 G Ex ib IIC T4

MT72H540F-50

- 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

Models	Connector	Product code	Weight
Headset headband	J11, TP-120	MT72H540F-50	400 g
Headset helmet	J11, TP-120	MT72H540P3E-50	430 g

Peltor™ Tactical™ XP Headset

– new options for volume settings

The Peltor Tactical XP protects you from harmful noise and impulse sounds, while allowing and even amplifying ambient sounds such as conversation, machine noises and warning signals.

The built-in functions of the Tactical XP make it quite different from other active hearing protectors: The user can control and vary the volume function for the current situation. Where necessary, ambient noise can be amplified more than any other Peltor hearing protector allows.

Peltor Tactical XP lets you hear what you want to hear and block out all harmful noise. Each function and setting is indicated by a voice message.

Peltor Tactical XP is also available without boom microphone.

- Fail safe functions which enable communication if batteries run out
- Equipped the following functions: volume for the level dependent function, balance, adjustable release time, equalizer, volume for external input and external input mode
- 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
- Battery life time approximately 1000 hours

EX Class: Ex II 2G Ex ib IIC T4

Models	Connector	Product code	Weight
Folding headband		MT1H7F2-50	390 g
Neckband		MT1H7B2-50	375 g
Helmet attachment		MT1H7P3E2-50	425 g
Headset headband	J11, TP-120	MT1H7F2-07-50	400 g
Headset neckband	J11, TP-120	MT1H7B2-07-50	385 g
Headset helmet	J11, TP-120	MT1H7P3E2-07-50	435 g

Headset with 0.4–1.0 m long spiral cord for connection to the Peltor Adapter

Peltor Adapter - the reliable link

The adapter between the headset and the communication radio is crucial for communication. This is where the PTT button for transmission is, which means that you must always have the adapter within reach and yet out of the way. The adapter is intended to tolerate rough treatment and harsh climates, day after day. The Peltor Adapter has what it takes.

- The PTT button is logically positioned and easy to use, even with thick gloves on.
- A sturdy clamp on the back can be twisted 360 degrees for easy, flexible use in all situations.
- The whole adapter, and particularly the contact, is designed to keep moisture away from the electronics.



MT1H7F2-07-50



MT1H7F2-50 MT7H7B2-50

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)	12,0	19,7	26,4	31,5	30,8	33,1	36,9

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

MT1H7P3E2-50

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	36,9

SNR=31 H=32 M=28 L=20

EX Class: Ex II 2 G Ex ib IIC T4

Product Code Communication radios

FL5205	Ascorm Tateco CTS900, Ericsson Freetset
FL5212	Motorola MX1000, MX2000, MX3000
FL5214	Motorola GP300 / Radius P110
FL5216	Ericsson P50/50
FL5218	Motorola HT1000, MT2000, GP900, GP1200
FL5230	Motorola GP320/340
FL5245	Atlantis TP8000
FL5242	EADS THX880i EX
FL5259	Puma T3
FL5261	Sailor SP3530, 3540, 3560

Technical data

Conforms to the CE requirements in the EU's EMC directive 89/336/EEG. Sealed to IP65 according to IEC 60529

Peltor™ Lite-Com™ Pro Programmable Wireless Communication Headset

Versatile

The new Peltor Lite-Com Pro is a communication headset with high attenuation ear protection and a built-in short range communication radio for integration with industrial or other professional radio communication systems.

The noise cancelling microphone is mounted on a new microphone boom type. VOX function facilitates hands-free operation, while the PTT button makes it possible to communicate in extremely noisy areas, or whenever “push-to-talk” is wanted.

Programmable

Up to 30 radio channels are programmable in the 403-447 MHz or 430-470 MHz frequency range with Peltor Radio Software. The selective squelch function with CTCSS tones or DCS digital codes, allows multiple users to work on the same channel without listening to each others communication.

Despite the high noise attenuating cups for your hearing protection, it is also possible to hear important sounds from the surroundings; for instance warning tones or a call of distress. Two external microphones pick up the surround sound for internal reproduction in stereo.

The sound level from the speakers is limited to 82 dB, for a full day's use of your headset without problems. You can also communicate with people standing close by in a noisy environment, without jeopardizing your hearing by lifting a cup.

To further increase the possibilities for wireless communication you can connect external electronic equipment to your Lite-Com Pro headset; for instance a cell phone, a communication radio or almost any other audio source.

There is also an accessory cable with PTT button to connect for remote control of the radio in the Peltor Lite-Com Pro.

Low power

Operating time is up to about 40 hours, depending on the type of battery and mode of use. Standard 1.5 Volt size AA batteries are required, except for use in explosive areas, where a specific batteries or the special rechargeable accumulator Peltor™ ACK05 should be used. The working range with maximum output power is up to 3 km outdoors, however depending on actual conditions.

Easy to use

There are only four conveniently positioned function keys to handle all settings. Internal voice messages confirm all changes of modes and settings. The last setting is stored when the unit is switched off.

Models	Product code	Frequency	Ch. spacing	Weight
Headset headband	MT7H7F403-50	403-447 MHz	12,5/25 kHz	390 g
Headset neckband	MT7H7B403-50	403-447 MHz	12,5/25 kHz	375 g
Headset helmet	MT7H7P3E403-50	403-447 MHz	12,5/25 kHz	410 g
Headset headband	MT7H7F4032-50	403-447 MHz	10/20 kHz	390 g
Headset neckband	MT7H7B4032-50	403-447 MHz	10/20 kHz	375 g
Headset helmet	MT7H7P3E4032-50	403-447 MHz	10/20 kHz	410 g
Headset headband	MT*H7F470-50	430-470 MHz	12,5/25 kHz	390 g
Headset neckband	MT*H7B470-50	430-470 MHz	12,5/25 kHz	375 g
Headset helmet	MT*H7P3E470-50	430-470 MHz	12,5/25 kHz	410 g
Headset headband	MT7H7F4702-50	430-470 MHz	10/20 kHz	390 g
Headset neckband	MT7H7B4702-50	430-470 MHz	10/20 kHz	375 g
Headset helmet	MT7H7P3E4702-50	430-470 MHz	10/20 kHz	410 g



EX Class:
EX II 1 G Ex ia IIC T4

MT*H7F403*-50, MT*H7F470*-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.7	23.4	30.7	34.6	34.5	36.9	37.3
Standard Deviation (dB)	3.9	4.6	3.2	3.4	3.1	2.7	4.2
Assumed Protection (dB)	10.8	18.8	27.4	31.2	31.4	34.2	33.1

SNR=30 H=33 M=27 L=19

MT*H7B403*-50, MT*H7B470*-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.2	22.9	31.7	35.6	34.5	37.7	40.0
Standard Deviation (dB)	3.2	2.2	2.0	2.9	3.0	3.9	3.3
Assumed Protection (dB)	13.0	20.7	29.7	32.7	31.5	33.8	36.8

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

MT*H7P3E403*-50, MT*H7P3E470*-50

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

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

Peltor Lite-Com Pro is sold by authorized Lite-Com Pro dealers only.

Peltor™ Wireless Solutions™

– A more effective, flexible way to communicate

Peltor Wireless Solutions uses the latest Bluetooth technology to make communication in noisy environments easier and more effective. You can always be available – fast, easily and wirelessly. Gone are the problems of the snagging cord, and you can use your telephone or com radio even when they're not in sight.

Peltor Wireless Solutions Headset

New wireless communication headset from Peltor has a built-in Bluetooth* circuit that can quickly and easily connect to another Bluetooth unit up to 10 metres away.

Operating time is up to 20 hours and standby time is 750 hours.

- Rechargeable Ex battery is included

MT53H7FWS2-50

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	20.6	29.6	35.1	30.4	32.4	36.7

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

MT53H7P3EWS2-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14	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



MT53H7FWS2-50

EX Class: Ex II 2G Ex ia IIC T4
Ex II 2D Ex iaD T130°
Ex I M1 Ex ia I

Models	Product code	Weight
Headset headband	MT53H7FWS2-50	370 g
Headset helmet	MT53H7P3EWS2-50	420 g
Battery Pack	ACK15-EC	
Charger	FR15-EC	

Accessories and spare parts

- HY79 Hygiene kit.** Easy-to-replace hygiene kit consisting of attenuating cushions and ear cushions
- HY100A Clean single-use protectors.** A single-use protector that is easy to apply to the ear cushions. Packages of 100 pairs
- HYM1000 Mike Protector.** Moisture and wind-tight. Hygienic, effective protector that increases the life span of the speech microphone. Packages of 5 metres, approx. 50 replacements
- M40/1 Wind protector for microphone.** Effective against wind noise. For dynamic microphone. (MT7)
- M995 Wind protector for microphone.** Effective against wind noise. For electric microphone. (MT53)
- M41/2 Wind protector for surround mic.** For Tactical XP
- MT91-50 Throat microphone.** ATEX-approved for Tactical XP and Peltor headset
- ACK05 Rechargeable battery pack,** 2500 mAh (only for Lite-Com Pro)
- FR05 Battery charger** for ACK05, 230V
- FL5602-50 External PTT** for Lite-Com Pro



HY79



M41/2



MT91-50



HYM1000



FR05



FL5602-50



ACK05

*Bluetooth is a registered trademark of Bluetooth SIG Inc

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