

3M Science.
Applied to Life.™

3M™ PELTOR™
Communication Solutions:
Gateway Products





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Communication Solutions

Close up or far away 3M™ PELTOR™ Communication Solutions for noisy environments make it possible for users of hearing protectors to communicate very effectively with their immediate environment and with people further away. This brochure focuses on the industrial solutions available.

3M™ PELTOR™ Communication Solutions

The Sound Solution

First-class communication and hearing protection! There was a time when wearing hearing protectors meant being isolated and out of contact. Those days are over. Today, 3M™ PELTOR™ offers first-class communication solutions that not only make your working day safer and more efficient, but also much nicer!

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

We have developed several models to ensure there's a 3M™ PELTOR™ Headset for every situation. Headband models for all-round use, and models with helmet attachments for people who wear safety helmets at work.

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



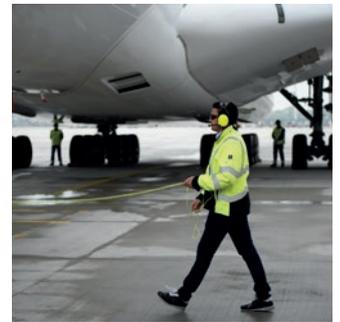
Oil and gas



Mining



Hunting and sport shooting



Airport ground handling



Military and law enforcement



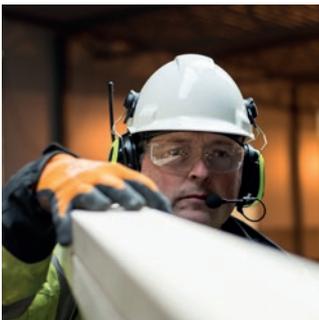
Energy and utilities



Transportation



Industry



Construction

3M™ PELTOR™ Communication Solutions

The importance of wearing hearing protection 100% of time exposed



100% usage
Gives the expected protection.



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



90% usage
Virtually no protection.

Safety

To be effective, a hearing protector should be used 100% of the time in noisy environments. Even taking it off for a short time dramatically reduces its effectiveness and greatly increases the risk of hearing damage. The 3M™ PELTOR™ Communication Solutions encourage longer use because the wearer feels less isolated and can communicate with others more easily.

Function symbols

To help you to understand the functionality of the products you will find below symbols on each product page.



Hearing protection with level-dependent function for ambient listening



Hearing protection that features Bluetooth® technology, for wireless connection to mobile phone, or communication radio



Hearing protection with built-in two-way radio



Hearing protection with built-in FM radio receiver



Hearing protection with external audio input



Hearing protection for communication with external two-way radio

Essential products and functions



3M™ PELTOR™
EEP-100 EU

3M™ PELTOR™
ProTac III

3M™ PELTOR™
WorkTunes™
Pro

3M™ PELTOR™ WS™
ProTac XPI

3M™ PELTOR™
LiteCom

3M™ PELTOR™ WS™
LiteCom Plus



3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ Electronic Ear Plug EEP-100 EU

3M™ PELTOR™ Electronic Earplug helps protect against harmful noise, whilst allowing ambient sounds to be heard at a level below 82dB. It increases your ability to communicate with nearby colleagues, as well as hearing warning signals, approaching vehicles, or sounds in machines and processes.



Features and Benefits:

- High attenuating hearing protector (SNR from 32dB to 36dB)
- Level-dependent function for ambient listening
- Easily compatible with many head or respiratory protections
- Plug & Play: only one button
- 16 hours operating time
- USB charging integrated to the storage case



Attenuation* UltraFit

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	34.5	31.5	36.2	33.4	34.8	34.9	38.8
Standard Deviation (dB)	6.0	5.4	5.6	4.3	3.8	5.0	4.0
Assumed Protection (dB)	28.5	26.1	30.6	29.1	31.0	29.9	34.8

SNR=32dB H=31dB. M=30dB. L=29dB

CCC-GRM-25

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	35.5	32.5	37.1	38.0	37.6	39.5	45.5
Standard Deviation (dB)	4.5	4.0	4.4	3.7	2.9	4.6	4.2
Assumed Protection (dB)	30.9	28.4	32.7	34.3	34.6	34.9	41.3

SNR=36dB H=35dB. M=34dB. L=32dB



Earpiece power

Battery Type: Lithium Ion

Battery Life: Up to 16 Hours

Battery Charge Time: Approximately 180 Minutes

Volume Steps: Low, Normal, High

Case USB Type: Micro B

Standards

Waterproof Rating: Complies with IP54 with cover and USB port closed

SNR: PPE directive 89/686/EEC

Physical characteristics

Weight: Box containing charger, 2 earpieces,

4 pair communications eartips, USB cable - 240g

Weight: Charger - 57.1g

Weight: 1 earpiece - 4g

3M™ PELTOR™ accessories

TEP-CORD	3M™ PELTOR™ Tactical Earplug Replacement Cord
370-TEPL-25	3M™ UltraFit™ Communication Tips Replacement, Large, 25 pairs
370-TEPM-25	3M™ UltraFit™ Communication Tips Replacement, Medium, 25 pairs
370-TEPS-25	3M™ UltraFit™ Communication Tips Replacement, Small, 25 pairs
PELTIP5-01	3M™ Torque™ Eartips, 50 pairs
CCC-GRM-25	3M™ PELTOR™ Communication Tip, Triple C, 25 pairs
TEP-WINDSCREEN	3M™ PELTOR™ TEP/LEP Windscreen Foam

* For further attenuation information please visit www.3M.eu/PPESafety

3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ ProTac™ III Headset

The 3M™ PELTOR™ ProTac™ III hearing protector helps protect against harmful noise, whilst allowing ambient sounds to be heard at a level below 82dB. It increases your ability to communicate with nearby colleagues, as well as hearing warning signals, approaching vehicles, or sounds in machines and processes.



Features and Benefits:

- Hearing protector
- Level-dependent function for ambient listening
- 3.5 mm listen only stereo input (limited to 82 dB) for connection to external devices (e.g. cell phone, two-way radio, iPod)
- Voice guided menu system
- Auto power off: The headset will turn off after 4 hrs of non-use to save battery
- Low-battery warning at low battery level
- To reduce the corrosion caused by sweat the electronics are located in the outer part of the cup



Attenuation*

MT13H221A 3M™ PELTOR™ ProTac™ III Headset

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.0	24.0	28.0	36.9	37.3	39.3	35.4
Standard Deviation (dB)	3.2	2.0	29.5	3.3	4.9	3.2	3.9
Assumed Protection (dB)	13.8	22.0	2.6	33.6	32.4	36.1	31.5

EN 352-1:2002 SNR=32 dB H=34 dB M=29 dB L=22 dB

MT13H220A 3M™ PELTOR™ ProTac™ III Slim Headset

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13.3	17.4	22.3	28.0	30.8	37.6	37
Standard Deviation (dB)	3.2	1.8	2.3	3.2	3.4	2.8	4.8
Assumed Protection (dB)	10.1	15.6	20.0	24.8	27.4	34.8	32.2

EN 352-1:2002 SNR=26 dB H=29 dB M=23 dB L=17 dB

* For further attenuation information please visit www.3M.eu/PPEsafety



3M™ PELTOR™ ProTac™ III

MT13H221A Headband

Available in: Black

SNR: 32dB

Other 3M™ PELTOR™ ProTac™ III options



3M™ PELTOR™ ProTac™ III Headset, black, helmet attachment

MT13H221P3E Helmet attachment

Available in: Black

SNR: 31dB

3M™ PELTOR™ ProTac™ III Slim Headset

MT13H220A Headband

Available in: Black

SNR: 26dB

3M™ PELTOR™ ProTac™ III Slim Headset, black, helmet attachment

MT13H220P3E Helmet attachment

Available in: Black

SNR: 25dB

Battery Type: 2x AA (Alkaline)

Operating time: Approximately 1 00 hours of battery lifetime

Net Weight (Incl. Batteries): ProTac™ III Slim MT13H220A (headband) = 303g

ProTac™ III MT13H221A (headband) = 355g

ProTac™ III Slim

MT13H220P3E (helmet attachment) = 322g

ProTac™ III MT13H221P3E (helmet attachment) = 374g

Operating temperature: -20°C to +55°C

(battery dependent)

Wired Connectivity: 3.5mm listen-only stereo

input jack (limited to 82 dB)

3M™ PELTOR™ accessories

HY220 Hygiene kit

FL6CE/1 3M™ PELTOR™

FL6CE/1 3.5 mm Cable

HY100A 3M™ PELTOR™ HY100A

Clean Hygiene Pad

3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ WS™ ProTac XPI

The 3M™ PELTOR™ WS™ ProTac XPI Headset is equipped with a level-dependent function for situational awareness and communication. The headset features Bluetooth wireless technology and can also be connected via a jack to provide high quality communication and streaming.

The level-dependent function helps you hear ambient sounds such as external alarm signals or approaching vehicles. It also allows face to face communication in quiet environments.



Features and Benefits:

- Hearing protector (SNR: 31dB)
- Noise cancelling speech microphone for clear communication in noisy environments
- Stainless steel wire headband for comfortable and consistent pressure
- Bluetooth® wireless technology for communication and streaming high quality stereo sound
- Level-dependent function for situational awareness and communication
- External radio connection jack (only available in FLX2 Connector version)
- Easy to use with four button operation
- Ghost voice guided menu system
- Auto power off in 2 hours from last activation
- Also available as neckband or helmet attachment



Connects with

- Bluetooth compatible devices
- Two-way radio (via FLX2 connection)

Attenuation*

MT15H7AWS6 / MT15H7AWS6-111

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.4	24.6	35.8	36.0	34.3	35.0	34.8
Standard Deviation (dB)	3.1	1.8	3.2	2.7	2.3	3.0	3.4
Assumed Protection (dB)	11.3	22.8	32.6	33.3	32.0	32.0	31.4

EN352-1:2002 SNR=31 dB H=33 dB M=30 dB L=20 dB

MT15H7P3EWS6 / MT15H7P3EWS6-111

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.7	25.4	33.0	38.0	34.3	34.4	34.3
Standard Deviation (dB)	3.2	3.4	3.3	4.5	3.8	3.6	5.0
Assumed Protection (dB)	15.5	22.0	29.7	33.5	30.5	30.8	29.3

EN352-3:2002 SNR=31 dB H=31 dB M=30 dB L=23 dB

3M™ PELTOR™ accessories

HY83	3M™ PELTOR™ HY83 Hygiene kit, 2 foam liners, 2 snap-in cushions	FR08	3M™ PELTOR™ FR08 Power supply with USB connector 7000108521	M60/2	3M™ PELTOR™ M60/2 Windshield for Level-dependent microphones 2ea
HY80	3M™ PELTOR™ Gel snap-in cushions 7000127468	FR09	3M™ PELTOR™ FR09 Battery charger with USB connector	HY100A	3M™ PELTOR™ HY100A Clean Hygiene Pad, 100pcs
ACK053	3M™ PELTOR™ ACK053 Rechargeable NiMH battery, 2100mAh	M171/2	3M™ PELTOR™ M171/2 Windshield for MT73 speech microphone 2ea	HYM1000	3M™ PELTOR™ HYM1000 Microphone protection, 5 meters

3M™ PELTOR™ WS™ ProTac XPI Headset
MT15H7AWS6 Headband
SNR: 33dB

Other 3M™ PELTOR™ WS™ ProTac XPI options



3M™ PELTOR™ WS™ ProTac XPI Headset, helmet attachment
MT15H7P3EWS6 Helmet attachment
SNR: 31dB

3M™ PELTOR™ WS™ ProTac XPI FLX2 Headset
MT15H7AWS6-111 Headband
SNR: 31dB

3M™ PELTOR™ WS™ ProTac XPI FLX2 Headset
MT15H7P3EWS6-111
Helmet attachment
SNR: 31dB

Frequency Range: 2400-2483.5 MHz

Bluetooth®

Version: 4.2+EDR

Battery Type: 2xAA NiMH or alkaline batteries, 1,2-1,5 V

Operating Time: Level Dependent + Bluetooth active: Approximately 45 hours of battery lifetime with included alkaline batteries

Net Weight, (incl. batteries): Headband:
MT15H7AWS6 = 365g
MT15H7AWS6-111 = 373g
Helmet Attachment:
MT15H7P3EWS6 = 387g
MT15H7P3EWS6-111 = 395g

Operating Temperature: -20°C to +55°C (battery dependent)

Wired Connectivity: Available with flex input jack

3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ WorkTunes™ Pro Headset

The 3M™ PELTOR™ WorkTunes™ Pro Headset helps protect you from potentially harmful workplace noise while at the same time enjoy listening to the built-in FM or AM/FM radio. The built-in antenna, fast digital tuning and ability to store stations makes the hearing protector flexible and easy to work with.



Features and Benefits:

- Hearing protector (SNR : 32dB)
- FM or AM/FM radio headset with built-in antenna
- Voice guided menu system with announced frequencies
- Store up to 5 stations
- 3.5mm listen only stereo input (limited to 82dB) for connection to external devices (e.g. cell phone, two-way radio, iPod)
- Auto power off, the headset will turn off after 4hrs of non-use to save battery
- Low-battery warning at low battery level



Attenuation*

HRXS221A and HRXS220A EN 352-1:2002

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.0	24.0	29.5	36.9	37.3	39.3	35.4
Standard Deviation (dB)	3.2	2.0	2.6	3.3	4.9	3.2	3.9
Assumed Protection (dB)	13.8	22.0	26.9	33.6	32.4	36.1	31.5

SNR=32 dB H=34 dB M=29 dB L=22 dB

HRXS221P3E and HRXS220P3E EN 352-3:2002

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.6	22.0	29.1	36.3	36.4	38.7	34.2
Standard Deviation (dB)	2.7	2.2	2.9	3.4	3.9	4.2	4.0
Assumed Protection (dB)	2.7	2.2	2.9	3.4	3.9	4.2	4.0

SNR=31 dB H=33 dB M=28 dB L=21 dB

* For further attenuation information please visit www.3M.eu/PPEsafety



3M™ PELTOR™ WorkTunes™ Pro FM Radio Headset

HRXS220A Headband

Available in: Black

SNR: 32dB

Other 3M™ PELTOR™ WorkTunes™ Pro FM Radio Headset options



3M™ PELTOR™ WorkTunes™ Pro FM Radio Headset HRXS220P3E Helmet attachment

Available in: Black
SNR: 31dB

3M™ PELTOR™ WorkTunes™ Pro AM/FM Radio Headset HRXS221A Headband

Available in: Black
SNR: 32dB

3M™ PELTOR™ WorkTunes™ Pro AM/FM Radio Headset HRXS221P3E Helmet attachment

Available in: Black
SNR: 31dB

Battery Type: 2x AA (Alkaline)
Operating time: Approximately 40 hours of battery lifetime
Net Weight (incl. batteries): WorkTunes Pro FM HRXS220A (headband) = 351g
WorkTunes Pro FM HRXS220P3E (helmet attachment) = 369g
WorkTunes Pro AM/FM HRXS221A (headband) = 353g
WorkTunes Pro AM/FM HRXS221P3E (helmet attachment) = 371g

Operating temperature: -20°C to +55°C (battery dependent)
Wired Connectivity: 3,5 mm AUX input jack (limited to 82dB(A))

3M™ PELTOR accessories

HY220 Hygiene kit
FL6CE/1 3M™ PELTOR™ FL6CE/1 3.5 mm Cable
HY100A 3M™ PELTOR™ HY100A Clean Hygiene Pad

3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ LiteCom

With 3M™ PELTOR™ LiteCom communicating in noisy environments has been made easy – and safe. LiteCom is a tough and rugged headset designed to cope with demanding use in many different working environments.

The built-in two-way radio has got 8 channels with 38 subchannels, and has a range of up to 3km. It lets you talk hands-free and work safely regardless of harmful noise levels.



Features and Benefits:

- Hearing protector (SNR : 32dB)
- Built-in two-way radio
- 8 channels in the PMR 446MHz band
- 38 subchannels
- Range of up to 3km depending on conditions
- Voice operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice guided menu system



3M™ PELTOR™ LiteCom
MT53H7A4400-EU Headband
SNR: 32dB

Other 3M™ PELTOR™ LiteCom options



3M™ PELTOR™ LiteCom
MT53H7B4400-EU Neckband
SNR: 32dB



3M™ PELTOR™ LiteCom
MT53H7P3E4400-EU Helmet attachment
SNR: 33dB

Frequency range:	446 MHz (PMR)
Battery Type:	2X AA 1.2–1.5 V batteries or NiMH (2,4 V)
Operating time:	Approximately 20 hours of battery lifetime with included alkaline batteries
Net Weight (incl. batteries):	394g (headband) 418g (helmet att.) 384g (neckband)
Operating temperature:	-20°C to +55°C (battery dependent)

3M™ PELTOR™ accessories	
HY79	Hygiene kit
ACK053	Rechargeable battery
FR08	Power supply
FR09	Battery charger
MT53N-12	Electret microphone

Attenuation*
MT53H7A4400-EU Headband

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.1	24.3	32.1	36.2	34.7	39.2	36.0
Standard Deviation (dB)	2.4	1.7	2.2	2.6	3.6	3.3	2.4
Assumed Protection (dB)	15.6	22.6	29.9	33.6	31.1	35.9	33.6

SNR=32dB H=33dB. M=30dB. L=23dB

* For further attenuation information please visit www.3M.eu/PPESafety

3M™ PELTOR™ Communication Solutions

3M™ PELTOR™ WS™ LiteCom Plus

3M™ PELTOR™ WS™ LiteCom Plus with Bluetooth® opens up a world of communication with your built-in two-way radio headset at the hub. You become a mobile, hands-free communication center, the built-in two-way radio and wireless connections to your computer and cell phone. You can take your calls, or stream music thanks to electronics that let you switch easily between functions. The level-dependent technology lets you hear ambient sounds such as external alarm signals or approaching vehicles. It also allows face to face communication at close distance. Robust design (IP54 certified), clear controls and an intuitive menu system.



Features and Benefits:

- Hearing protector
- Built-in two-way radio communication
- Connect different devices (radio, mobile phone) via Bluetooth® Multi-Point
- 16 channels in the PMR 446 MHz band and 121 subchannels
- IP54 certified
- Range of up to 3km depending on conditions
- Level dependent technology for situational awareness
- A separate audio input enables connecting equipment such as mobile phones or external two-way radios
- Voice operated transmission (VOX)
- Auto power off function
- Voice guided menu system
- Noise cancelling waterproof microphone (IP68)

Connects with

- Bluetooth compatible devices
- Two-way radio (via flex cable or Bluetooth®)

Attenuation*

MT73H7B4410WS6EU Headband

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.9	24.0	32.7	32.5	36.2	40.4	39.1
Standard Deviation (dB)	2.5	2.0	3.2	2.8	3.4	3.9	3.2
Assumed Protection (dB)	12.4	22.0	29.5	29.7	32.8	36.5	35.9

SNR=31dB H=34dB. M=29dB. L=21dB

MT73H7B4310WS6EU Headband

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.6	22.7	33.5	36.9	37.5	41.7	39.3
Standard Deviation (dB)	2.2	1.9	2.3	3.1	4.0	2.7	1.8
Assumed Protection (dB)	12.4	20.8	31.2	33.8	33.5	39.0	37.5

SNR=32dB H=36dB. M=30dB. L=21dB

* For further attenuation information please visit www.3M.eu/PPEsafety



3M™ PELTOR™ WS™ LiteCom Plus
MT73H7A4410WS6EU Headband
SNR: 33dB

Other 3M™ PELTOR™ WS™ LiteCom Plus options



3M™ PELTOR™ WS™ LiteCom Plus
MT73H7B4410WS6EU
Neckband
SNR: 31dB



3M™ PELTOR™ WS™ LiteCom Plus
MT73H7P3E4410WS6EU
Helmet attachment
SNR: 31dB

Frequency range: PMR 446MHz or LPD 433MHz

Bluetooth® Version: 2.1+EDR

Battery Type: Rechargeable battery pack included or 2x standard AA batteries

Operating time: Approximately 18 hours

Net Weight (incl. batteries): 449g (headband)
434g (helmet att.)
434g (Neckband)

Operating temperature: -20°C to +50°C (battery dependent)

3M™ PELTOR™ accessories

ACK081	Battery
FR08	Power supply
AL2AI	Charging cable for ACK081
HY83	Hygiene kit
HY80	Gel Rings
HYM1000	Mic Tape

3M™ PELTOR™ Communication Solutions

3M™ Versaflo™ Helmets M-300 Series with 3M™ PELTOR™ LiteCom solutions

M-300 Series Helmets meet the highest powered respirator performance requirements (TH3) for this type of product when used with specific 3M™ Air Delivery Units. Now approved to be used with 3M™ PELTOR™ LiteCom headsets, M-300 Helmets offer you the possibility to communicate effectively whilst protecting your hearing in noisy environments.

Features and Benefits:

Highly versatile rigid headtops

- Head protection approved according to EN 397
- Integrated protection from multiple hazards (e.g. respiratory, impact, splash hazards)

Modern, well balanced design

- Lightweight with excellent balance
- Fully-adjustable head suspension
- A deflector allows users to direct the airflow inside the headtop for increased control and comfort

Visor design

- Visor design combines excellent peripheral and downward vision with good optical clarity
- Lenses provide chemical and scratch resistance

Typical applications

- Smelting and foundry applications
- Grinding
- Chemical processing and plant maintenance
- Agricultural applications
- Construction and renovation
- Demolition

Electronic Protectors

Size Ranges: S = Small, M = Medium, L = Large

Helmet model	Wedge	Product number	Description	Size
Versaflo™ M-306 or M-307 Helmet	Z3AF	MT**H79P3*	3M™ PELTOR™ Helmet Att. Headsets, Product numbers beginning with MT7H or MT53H except model number ending in -77	M/L
		MT7H540P3*	3M™ PELTOR™ Twin Cup Headsets, Helmet attached, except model number ending in -77	M/L
		MT*H7P3*	Helmet attached WS™ ProTac XP, WS™ Headset XP, Tactical XP, LiteCom, WS™ LiteCom, LiteCom PRO II, LiteCom Plus product numbers beginning with MT7H or MT53H	M/L



Note: 3M does not accept responsibility or liability, direct or consequential, arising from reliance upon any information provided and the user should determine the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence or fraudulent misrepresentation.



2 options of built-in microphones:

- Dynamic
- Electret

3M™ PELTOR™
MT53V/1
(ELECTRET)



3M™ PELTOR™
MT7V/1
(DYNAMIC)



red dot design award
honourable mention 2011



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