



**PELTOR™**  
Protection & Communication

3M™ PELTOR™ Professional In-Ear  
Communication Headset, PIC-100 NA

**Close-connect  
wireless technology  
for team communication.**

# The next generation protective communication solution.

With the 3M™ PELTOR™ PIC-100 Headset, 3M™ PELTOR™ is introducing multiple innovative technologies to help workers stay protected and productive.



# Hearing Protection with On-Demand Fit Test.

Featuring on-demand fit-test functionality at the push of a button, users can obtain their current personal protection level, and thereby help to ensure they have appropriate protection for their hazardous noise environment. Compatible with a number of different eartip styles and sizes, users can choose the eartips they prefer and ones that provide adequate protection.

- Replaceable eartips in multiple types & sizes.
- On-demand fit test assesses the wearer's current personal protection level: a binaural personal attenuation rating (PAR) at the push of a button.
- A field attenuation estimation system (FAES) designed to perform as outlined in ANSI/ASA S12.71-2018. Lab testing to certify ANSI S12.71 compliance is currently in progress





# Environmental Listening.

The PIC-100 features environmental listening technology. This assists workers to communicate face-to-face, in low or intermittent noise, and to hear environmental sounds at safe levels without being tempted to remove or poorly fit their hearing protection.

- Environmental microphones.
- Compresses sound through the environmental microphones down below  $\approx 82$  dBA.
- Adjustable volume levels.
- Helps to communicate in lower noise environments while still protected.

# Bluetooth® technology.



The PIC-100 comes with **Bluetooth®** wireless communication technology for connection to smart devices and two-way radios. **Bluetooth®** multipoint technology for simultaneous, wireless connection to two devices.

For added long-range communication capability, simply connect to **Bluetooth®** enabled:

- Smart phones
- Tablets
- Two-way radios

## 3M™ Connected Equipment App (coming soon)



The 3M Connected Equipment App allows users to easily navigate the headset's menu and make adjustments. The app also provides ready access to user instructions, FAQs, instructional videos and tech support contacts. In addition, the app enables over-the-air firmware updates.



# Close-connect wireless technology for team communication

The PIC-100 headset features 3M's innovative close-connect wireless technology that allows multiple people to speak simultaneously, headset to headset, enabling communication in a variety of noisy environments when workers are in close proximity. Headsets automatically connect with one another as they come into range without any need for pairing. Voice Operated Transmission (VOX) enables users to seamlessly communicate, hands-free, without the touch of a button.

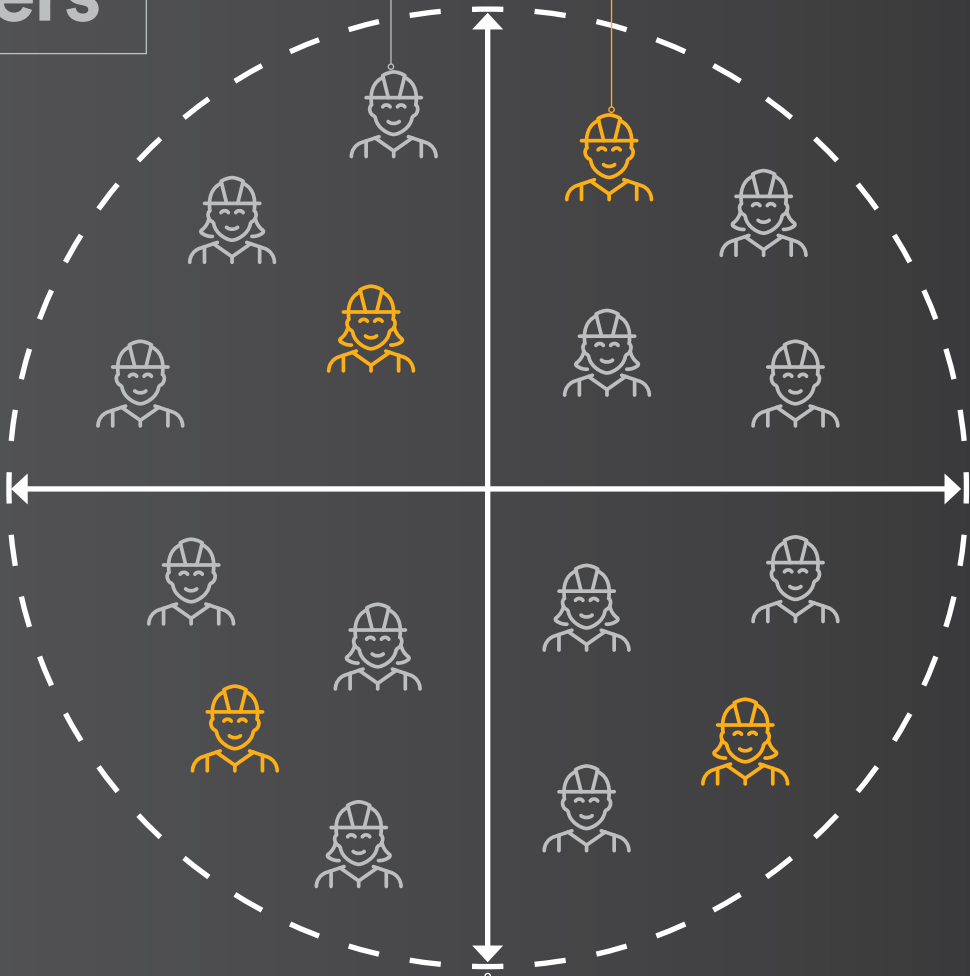
- 6 separate channels enable multiple groups to operate independently without interference.
- Configurable listening/talking options: Double press to change settings: VOX (voice activated transmission) and PTT (push-to-talk activated transmission).
- LED channel indication.
- No need for pairing; all PIC-100 headsets automatically connect to each other when in range.



Close-connect wireless technology for team communication

Up to  
**50**  
listeners

**4** Full-Duplex,  
Simultaneous  
talkers



**~ 20m / 22 yd**  
Depending on conditions



# In-Ear Communication Microphone.

Featuring an in-ear speech microphone, the PIC-100 headset is not dependent on a boom microphone near the mouth to detect speech, making the PIC-100 headset compatible with a wide range of personal protective equipment, including respirators.

- In-ear speech microphones in the earplugs pick up voice, eliminating the need for a traditional boom microphone.
- On-demand fit test helps assess the wearer's current personal protection level and promote speech clarity and transmission.
- Features a de-noising algorithm to help improve speech intelligibility in noisy environments\*.
- In-ear speech microphones make it compatible with most 3M respiratory protection including PAPRs, reusable respirators (full face and half face), and disposable respirators\*\*. No boom microphone necessary.

\* Speech intelligibility, using an in-ear microphone, may vary between different communication devices, and from person to person

\*\* Based on 3M internal evaluation including PAPRs, reusable respirators (full face and half face) and disposable respirators







# Earmuff Compatibility. (Coming soon)

The 3M™ PELTOR™ PIC-100 System Control Unit (SCU) can also be connected to the 3M™ PELTOR™ CH-3\* Headset via a FLX2 cable for an over-the-ear configuration (headset and FLX2 cable available separately).

\*No environmental listening function or real-time fit test.



+



+



PIC-100 System Control Unit (SCU)

FLX2-214 Cable

CH-3 Headset

# Key Performance Specifications

| <b>Power:</b>   |  |
|---|--|
| Battery type:   | Removable Li-ion   |
| Operating time:                                       | Approximately 16h  |
| Charging time:  | Approximately 4h   |
| Charging jack:  | USB Type C 3.1   |
| <b>Headset-to-Headset Full Duplex Radio:</b>          |  |
| Range:  | Approximately 20m / 22 yd depending on conditions  |
| Channels:   | 6  |
| Channel capacity:                                     | Up to 4 talkers and 50 listeners per channel   |
| Modulation:   | Time-division multiple access (TDMA) protocol  |
| Frequency band:                                       | 915 MHz (North America)  |
| Operation mode:                                       | Full Duplex  |
| <b>Bluetooth® technology :</b>                        |  |
| Bluetooth version:                                    | v5.1   |
| Bluetooth headset profile (HSP):                      | 1.2  |
| Bluetooth hands-free profile (HFP):                   | 1.7.1  |
| Bluetooth audio/video remote control profile (AVRCP): | 1.6  |
| Bluetooth advanced audio distribution profile (A2DP): | 1.3.1  |
| Bluetooth Range:                                      | Up to 10m/32ft (class 2)   |
| Multi-point connection:                               | Yes  |
| <b>Environmental Characteristics:</b>                 |  |
| Operating temp:                                       | -20°C to +50°C / -4°F to 122°F   |
| Charging temp:  | 10° C/50° F to +30° C/86° F  |
| Product Life:   | Headset (2 years), SCU (4 years), Battery (2 years*)   |
| Ingress Protection:                                   | IP54 compliant   |
| <b>Physical Characteristics:</b>                      |  |
| <b>Control Unit Size:</b>                             | L: 101 mm / 3.96 in<br>W: 65 mm / 2.55 in<br>H: 35 mm / 1.37 in  |
| <b>Weight:</b>  | Headset (~32g/1 oz)<br>SCU w/battery (~134g/4.65 oz)   |
| <b>Recommended Storage Conditions :</b>               |  |
| (<90% humidity)                                       | -20°C to +40°C / -4°F to 104°F   |
| <b>Approvals</b>                                      |  |
| USAC  | Noise Reduction Rating (NRR) tested in accordance with ANSI S3.19-1974   |
| USAC  | A field attenuation estimation system (FAES) designed to perform as outlined in ANSI/ASA S12.71-2018. Lab testing to certify ANSI S12.71 compliance is currently in progress |

\*NOTE: While stored, if possible, keep the batteries separate. Rechargeable Li-Ion batteries (removeable and non-removeable) have to be recharged every 6 months, not to lose capacity.

# Laboratory Attenuation (ANSI S3.19-1974)

## PIC-100 with 3M™ PELTOR™ CCC-GRM-25

| Frequency (Hz)          | 125  | 250  | 500  | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR* | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|------|-----------|
| Mean Attenuation (dB)   | 33.4 | 34.2 | 37.3 | 38.8 | 38.1 | 43.3 | 40.9 | 45.9 | 47.1 | 27   | AL        |
| Standard Deviation (dB) | 5.5  | 6.0  | 6.4  | 6.1  | 3.0  | 4.1  | 4.4  | 4.1  | 4.4  |      |           |

## PIC-100 with 3M™ UltraFit™ Communication Eartips

| Frequency (Hz)          | 125  | 250  | 500  | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR* | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|------|-----------|
| Mean Attenuation (dB)   | 34.7 | 35.4 | 35.0 | 32.8 | 33.0 | 37.4 | 30.6 | 40.9 | 45.4 | 21   | AL        |
| Standard Deviation (dB) | 6.9  | 5.1  | 6.0  | 5.1  | 5.2  | 5.7  | 6.6  | 7.9  | 4.6  |      |           |

## PIC-100 with 3M™ Skull Screw Communication Eartips

| Frequency (Hz)          | 125  | 250  | 500  | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR* | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|------|-----------|
| Mean Attenuation (dB)   | 41.1 | 40.5 | 44.9 | 43.1 | 40.6 | 45.7 | 44.6 | 48.2 | 48.5 | 33   | AL        |
| Standard Deviation (dB) | 6.3  | 6.0  | 5.9  | 4.0  | 3.4  | 3.5  | 4.0  | 5.1  | 4.2  |      |           |

\*See important warnings on last page.

## Models:

| Model #    | 3M ID      | Description   |
|------------|------------|---|
| PIC-100 NA | 7100262767 | 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 NA |

## Accessories & Replacement Parts

| Model #     | 3M ID      | Description  |
|-------------|------------|--|
| PIC-100HD   | 7100262876 | 3M™ PELTOR™ Replacement Headset, PIC-100HD             |
| PIC-100BA   | 7100262644 | 3M™ PELTOR™ Replacement Battery, PIC-100BA             |
| PIC-100CL   | 7100262875 | 3M™ PELTOR™ Replacement Clip, PIC-100CL                |
| PIC-100CS   | 7100268555 | 3M™ PELTOR™ Charging Station, PIC-100CS                |
| CCC-GRM-25  | 7100103087 | 3M™ PELTOR™ CCC-GRM-25 Communication Eartips, 25 pairs |
| 370-TEPL-25 | 7100066388 | 3M™ UltraFit™ Communication Eartips, Large, 25 pairs   |
| 370-TEPM-25 | 7100066387 | 3M™ UltraFit™ Communication Eartips, Medium, 25 pairs  |
| 370-TEPS-25 | 7100066371 | 3M™ UltraFit™ Communication Eartips, Small, 25 pairs   |
| 370-1019-10 | 7000108492 | 3M™ Skull Screws™ Communication Eartips, 10 pairs      |

**WARNING!**

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury.** For correct use, consult supervisor and User Instructions, or call 3M PSD Technical Service in the USA at 1-800-665-2942 and in Canada at 1-800-267-4414.

**WARNING!**

U.S EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations and guidance on how to adjust attenuation label value(s). It is recommended that the NRR be reduced by 50% to better estimate typical protection.



**3M Personal Safety Division**  
3M Center, Building 235-2NW-70  
St. Paul, MN 55144-1000

For more information:  
Technical Service 1-800-665-2942  
Customer Service 1-800-328-1667  
3M.com/PELTOR

3M PSD products are occupational use only. Please recycle. Printed in USA. © 3M 2022. All rights reserved. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by 3M Company is under license. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. 3M, PELTOR, UltraFit and Skull Screws are trademarks of 3M Company, used under license in Canada.