



## 3M™ PELTOR™ ComTac™ VI NIB Headset

### Product Description

The 3M™ PELTOR™ ComTac™ VI NIB Headset offers a hands-free adaptive VOX capability allowing face to face communication in full duplex for up to four talkers and up to sixty listeners within a 10 meter radius. This significantly increases the ability to communicate when on a boat, in tactical vehicles, aircraft, even in a loud small arms conflict without the need for tactical radio or intercom. This ability is the first of its kind in the tactical communications market.

### Key Features

- Two Environmental Listening Modes for enhanced Auditory Awareness
  - Advanced mode (“Mission Audio Profile”)
  - Classic mode
- NIB “Natural Interaction Behavior” function for improved face-to-face communications in noise
- Wireless input with Magnetic loop
- Detachable Comms Microphone
- Low battery warning
- Voice guided configuration menu
- Earplug mode (maintains situational awareness when used in combination with earplugs)
- Automatic power off after two hours if no function is used
- Tested according to the applicable parts of military standards



### Applications

3M™ PELTOR™ ComTac™ VI NIB Headset is ideal for military and law enforcement operations requiring auditory situational awareness, face-to-face communications in quiet and in noise, radio connectivity and/or hearing protection.

### Standard Models

| Article number    | Description  | Legacy 3M ID | SAP ID     |
|-------------------|--|--------------|------------|
| MT20H682FB-02N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, Foldable, Green               | UU009549500  | 7100168351 |
| MT20H682FB-38N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, STD, Green                    | UU009554948  | 7100168384 |
| MT20H682FB-86N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, NATO wired, Green             | UU009554476  | 7100168800 |
| MT20H682FB-19BN   | 3M™ PELTOR™ ComTac™ VI, NIB Headset, DUAL COM, NATO wired, Green   | UU009554930  | 7100168383 |
| MT20H682FB-88N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, STEREO, Green                 | UU009554492  | 7100168803 |
| MT20H682FB-02N SV | 3M™ PELTOR™ ComTac™ VI, NIB Headset, Foldable, Black               | UU009554922  | 7100168352 |
| MT20H682FB-38N SV | 3M™ PELTOR™ ComTac™ VI, NIB Headset, PELTOR wired, Black           | UU009554963  | 7100168802 |
| MT20H682FB-86N SV | 3M™ PELTOR™ ComTac™ VI, NIB Headset, NATO Wired, Black             | UU009554484  | 7100168801 |
| MT20H682BB-38N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, PELTOR wired, Neckband, Green | UU009898063  | 7100191429 |
| MT20H682BB-86N    | 3M™ PELTOR™ ComTac™ VI, NIB Headset, NATO wired, Neckband, Green   | UU009873538  | 7100191318 |

### Accessories

| Article number | Description                                     | Legacy 3M ID | SAP ID     |
|----------------|---|--------------|------------|
| HY68 SV        | 3M™ PELTOR™ Hygiene kit                         | XH001654461  | 7000108023 |
| HY80-EU        | 3M™ PELTOR™ Hygiene kit with Gel ring           | UU003133988  | 7100101182 |
| M60/2          | 3M™ PELTOR™ Wind shield for surround mic        | XH001652532  | 7000039650 |
| MT73/1         | 3M™ PELTOR™ Boom Microphone dynamic, waterproof | UU008163634  | 7100112094 |
| M171/2         | 3M™ PELTOR™ Wind protector for mic, 2 pcs       | UU008159483  | 7100112112 |
| HYM1000        | 3M™ PELTOR™ Hygiene tape for boom mic, black    | XH001651328  | 7100064281 |
| 1079 SV/SP     | 3M™ PELTOR™ Battery lid                         | UU004894315  | 7100088235 |

# Technical data specifications

## Technical data specifications

| Model     | Weight |
|-----------|--------|
| Headband: | 340g   |
| Neckband  | 313 g  |

### NIB "Natural Interaction Behavior" function

|                        |  |
|------------------------|--|
| Frequency band:        | Europe<br>North America, Australia & New Zealand               |
| Operation mode:        | Duplex   |
| Range:                 | 3-5m: Optimal for communication<br>5-10m: Fade in and fade out |
| Modulation:            | TDMA protocol  |
| Microphone type:       | Dynamic (MT73), Watherproof (IP68), 6m/30min                   |
| Operating temperature: | -20°C to +55°C   |

### Power

|                 |  |
|-----------------|--|
| Battery type:   | 2xAAA batteries  |
| Operating time: | Environmental listening: 50 h<br>Environmental listening + NIB: 30 h |

### Storage

|                                 |   |
|---------------------------------|---|
| Recommended storage conditions: | -20° C - +55° C, <90% humidity                            |
| Recommended max. shelf life:    | Headset: 5 years, excluding batteries.<br>Battery: 1 year |

**User limitation:** Never modify or alter this product

\* Modern military communication radios can have different configurations depending on how it is programmed. Users are advised to connect headset to actual radio and configuration being used, in order to test functions and features before purchase.

## Criterion Levels

H: 110,1 dB(A) M: 100,9 dB(A) L: 88,7 dB(A)

## External input levels / Sound Pressure levels

| Input (mV) | SPL (dB(A)) | Standard deviation (dB) |
|------------|-------------|-------------------------|
| 15         | 72.1        | 1.9                     |
| 26         | 77.1        | 1.9                     |
| 47         | 82.1        | 2.0                     |
| 84         | 87.1        | 1.9                     |
| 149        | 90.3        | 0.9                     |

(The electrical input level for which the sound pressure level is equal to 82 dB(A): 36,7 mV).

### External input levels MI

| Input (mV) | SPL (dB(A)) |
|------------|-------------|
| 21.3       | 70.0        |
| 28.8       | 75.0        |
| 48.5       | 80.0        |
| 80.1       | 85.0        |
| 223.9      | 90.0        |

(The electrical input level for which the sound pressure level is equal to 82 dB(A): 59 mV).

### External input levels NIB

| Input (mV) | SPL (dB(A)) |
|------------|-------------|
| 0.7        | 70.0        |
| 1.2        | 75.0        |
| 2.3        | 80.0        |
| 4.3        | 85.0        |
| 7.5        | 90.0        |

(The electrical input level for which the sound pressure level is equal to 82 dB(A): 2,9 mV).

## Laboratory Attenuation

### MT20H682FB-\*\*N\*\*1

EN:352-1

| Frequency (Hz) <sup>2</sup>                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|
| Mean Attenuation (dB) <sup>3</sup>         | 11.5 | 17.9 | 27.8 | 30.0 | 32.1 | 36.2 | 40.3 |
| Standard Deviation (dB) <sup>4</sup>       | 2.5  | 2.7  | 1.8  | 2.3  | 3.0  | 2.0  | 3.1  |
| Assumed Protection Value (dB) <sup>5</sup> | 9.0  | 15.3 | 25.9 | 27.7 | 29.1 | 34.2 | 37.2 |

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

### MT20H682BB-\*\*N\*\*1

EN:352-1

| Frequency (Hz) <sup>2</sup>                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|
| Mean Attenuation (dB) <sup>3</sup>         | 16.6 | 16.8 | 27.4 | 32.1 | 33.1 | 33.0 | 36.1 |
| Standard Deviation (dB) <sup>4</sup>       | 1.8  | 2.3  | 2.2  | 2.1  | 3.2  | 2.9  | 3.2  |
| Assumed Protection Value (dB) <sup>5</sup> | 14.8 | 14.5 | 25.2 | 30.0 | 29.9 | 30.1 | 32.9 |

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

### MT20H682FB-\*\*N\*\* + Gel ring

| Frequency (Hz) <sup>2</sup>                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|
| Mean Attenuation (dB) <sup>3</sup>         | 15.5 | 18.2 | 26.2 | 32.2 | 30.4 | 29.3 | 36.7 |
| Standard Deviation (dB) <sup>4</sup>       | 3.4  | 3.0  | 2.2  | 2.5  | 3.7  | 3.7  | 4.0  |
| Assumed Protection Value (dB) <sup>5</sup> | 11.7 | 15.2 | 24.0 | 29.7 | 26.7 | 25.6 | 32.7 |

SNR=27 dB H=27 dB M=25 dB L=18 dB

**CAUTION!** Research suggests that users may receive less noise reduction than indicated by the attenuation value(s) on the packaging, due to variation in fit, fitting skill, and motivation of the user. Refer to your applicable regulations for guidance on how to adjust label values and estimate attenuation. In addition, 3M strongly recommends fit testing of hearing protectors. To learn more about hearing protection for impulse noise, please visit [www.3M.com/hearing](http://www.3M.com/hearing).

### WARNING!

#### Hearing Protection Products\*

This hearing protector helps reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protection at all times when exposed to hazardous noise may result in hearing loss or injury.** For correct use, consult supervisor and User Instructions, or call 3M Technical Service. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, leave the noisy environment immediately and consult a medical professional and/or your supervisor.

Choking Hazard - Keep away from infants and small children.

## Standards and Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate directives or regulations to fulfill the requirements for the CE marking. The full text of the EU declaration of conformity is available at the following internet address: [www.3M.com/PELTOR/DOC](http://www.3M.com/PELTOR/DOC). A copy of the declaration of conformity and additional information required in the directives or regulations can also be obtained by contacting 3M in the country of purchase.

## Approvals

PPE Regulation 2016/425  
EMC Directive 2014/30/EU  
ROHS Directive 2011/65/EU  
Radio Directive 2014/30/EU  
RED Directive 2014/53/EU

### In the Box:

1 x ComTac VI  
1 x User manual  
2 x AAA batteries

Tested according to the applicable parts of MIL-STD-810G, EMC-MIL-STD-461G.



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For complete warranty condition, contact your dealer or local 3M office

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