



# 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 North America, Australia & New Zeland
Operation mode:	Duplex
Range:	3-5m: Optimal for communication 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 Environmental listening + NIB: 30 h

### Storage

Recommended storage conditions:	-20° C - +55° C, <90% humidity
Recommended max. shelf life:	Headset: 5 years, excluding batteries. 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).



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## 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.

The warranty does not cover any damage caused by neglected maintenance or careless handling.  
For more information on maintenance, please see the user instruction.  
For complete warranty condition, contact your dealer or local 3M office

#### Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M.  
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