



# 3M™ PELTOR™ ComTac™ XPI Headset

## MT20H682FB-\*, MT20H682BB-\*

### Product description

The 3M™ PELTOR™ ComTac™ XPI Headset is designed to help reduce exposure to hazardous levels of noise, improve situational awareness and at the same time enable two-way radio communication in noisy environments. This product is compatible with other military gear e.g., helmet, protective vest etc.

### Key Features:

- Hearing protection
- Waterproof speech microphone IP68 (6m/30min)
- Detachable microphone
- Level-dependent function for ambient listening
- “Plug and play”, no start up time
- Foldable headband for easy storage and transport
- Configuration menu with voice guide
- Functions: release time, balance, external mute mode, EQ mode
- Earplug mode (maintains situational awareness when used in combination with earplugs)
- SNR 39 dB when combined with earplugs
- Automatic power off after two hours if no function is used
- No software loads or outside power required, complete self-contained headset with power fail safe
- Tested according to the applicable parts of military standards



### Applications

3M™ PELTOR™ ComTac™ XPI Headset is designed to be used by infantry soldiers and emergency response units within law enforcement.

### Standard Models

Article number	Description	3M ID
MT20H682FB-33	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, coild cable, Green	7100039854
MT20H682FB-38	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Foldable, Green	7100035866
MT20H682BB-38	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Neckband, Green	7100035198
*MT20H682P3AD-38	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Helmet attachment, Green	7100049434
MT20H682FB-68	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Flexboom mic, Green	7100039830
MT20H682FB-86	3M™ PELTOR™ ComTac™ XPI Headset, NATO wired, Foldable, Green	7100020329
MT20H682BB-86	3M™ PELTOR™ ComTac™ XPI Headset, NATO wired, Neckband, Green	7100039769
*MT20H682P3AD-86	3M™ PELTOR™ ComTac™ XPI Headset, NATO wired, Helmet attachment, Green	7100036591
MT20H682FB-87	3M™ PELTOR™ ComTac™ XPI Headset, NATO wired, flexboom mic, Green	7100035926
MT20H682FB-88	3M™ PELTOR™ ComTac™ XPI Headset, STEREO wired, Green	7100020110
MT20H682FB-69	3M™ PELTOR™ ComTac™ XPI Headset, for SELEX PRR, Bone mic, Green	7100035233
MT20H682FB-89	3M™ PELTOR™ ComTac™ XPI Headset, for SELEX PRR, Flexboom mic, Green	7100040089
MT20H682FB-90	3M™ PELTOR™ ComTac™ XPI Headset, for SELEX PRR, Green	7100083899
MT20H682FB-95	3M™ PELTOR™ ComTac™ XPI Headset, STEREO wired, Bone mic, Green	7100060447
MT20H682FB-97	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Bone mic, Green	7100096142
MT20H682FB-98	3M™ PELTOR™ ComTac™ XPI Headset, NATO wired, Bone mic, Green	7100096175
MT20H682FB-101	3M™ PELTOR™ ComTac™ XPI Headset, STEREO wired, Flexboom mic, Green	7100207532
MT20H682FB-19B	3M™ PELTOR™ ComTac™ XPI Headset, DUAL COM, NATO wired, Green	7100039831
MT20H682FB-38 SV	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Black	7100037410
MT20H682BB-38 SV	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Neckband, Black	7100035924
*MT20H682P3AD-38 SV	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Helmet attachment, Black	7100039853
MT20H682FB-68 SV	3M™ PELTOR™ ComTac™ XPI Headset, PELTOR wired, Flexboom mic, Black	7100052605
MT20H682FB-86N SV	3M™ PELTOR™ ComTac™ XPI Headset, NATO Wired, Black	7100035925
MT20H682FB-87 SV	3M™ PELTOR™ ComTac™ XPI Headset, NATO Wired, Flexboom mic, Black	7100148527
MT20H682FB-99 SV	3M™ PELTOR™ ComTac™ XPI Headset, NATO Wired, coild cable, Black	7100153477

\* Not tested according to PPE directive 89/686/EEG

# Technical data specifications

## Laboratory Attenuation

### MT20H682FB-\*<sup>1</sup>

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

### MT20H682FB\* + EAR Classic

Frequency (Hz) <sup>2</sup>	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) <sup>3</sup>	35.5	40.8	51.4	44.7	37.0	48.1	44.8
Standard Deviation (dB) <sup>4</sup>	5.8	5.0	6.6	4.8	3.6	4.9	4.8
Assumed Protection Value (dB) <sup>5</sup>	29.7	35.8	44.9	40.0	33.5	43.1	40.0

SNR=39 dB H=36 dB M=38 dB L=36 dB

### MT20H682BB-\*<sup>1</sup>

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\* + 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

## 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.

### Approval:

PPE regulation 2016/425  
RED directive 2014/53/EU  
RoHS 2011/65/EU

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

### Technical Data Specifications:

Power: Battery Type: 2 x AAA 1.2-1.5V batteries  
Operating time: ~ 200h (battery & temperature dependent)  
Net Weight: MT20H682FB-38: ~ 340g +- 5% (excl. batteries)  
NOTE! The weight can fluctuate depending on Headset model and the type of battery that being used.  
Storage Temperature: -20 °C to +55 °C

## Accessories and Spare parts:

Article number	Description	3M ID
1079 SV/SP	3M™ PELTOR™ Battery cover for ComTac™ XP, XPI	7100088235
HY68 SV	3M™ PELTOR™ Hygiene kit for ComTac™	7000108023
HY68-02	3M™ PELTOR™ Hygiene kit for ComTac™, Bone,mic	7000108204
HY80-EU	3M™ PELTOR™ Gel Sealing Rings	7100101182
MT73/1	3M™ PELTOR™ Standard microphone, 80mm cable	7100112094
MT33/1	3M™ PELTOR™ Flexi boom speech microphone, 130mm cable, Incl. wind shield	7100112093
MT33-05/1	3M™ PELTOR™ Flexi boom speech microphone, 180mm cable, Incl. wind shield	7100112095
M171/2	3M™ PELTOR™ Windshield for MT73/1, MT33/1 microphone, 2pcs	7100112112
M60/2	3M™ PELTOR™ Foam mic cover for ComTac™ 2pc	7000039650

### In the Box:

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

The product has been tested in accordance with the impulse test requirements of ANSI S12.42

\* 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.



3M Personal Safety Division  
3M Svenska AB, Box 2341  
SE-331 02 Värnamo  
Sweden  
Phone: +46 (0) 370 65 65 65  
Fax: +46 (0) 370 65 65 99  
Email: [cstechservice@mmm.com](mailto:cstechservice@mmm.com)  
Internet: [www.3M.eu/military](http://www.3M.eu/military)

Please recycle. Printed in Sweden.  
© 3M 2018. All rights reserved.  
3M is a trademark of 3M Company, used under license in Canada. PELTOR and ComTac are trademarks of 3M Company and its affiliates, used under license in Canada.

#### Warranty:

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.  
The user is responsible for determining 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.

3M acknowledges the respective Trademark Owners's rights in this litterature.