

# **Technical Data Specification**

# 3M™ PELTOR™ CH-3 FLX2 Headset

# **Product Description**

The 3M™ PELTOR™ CH-3 FLX2 Headset will bring hearing protection and communication in noisy environments into a new level of performance with newly designed speakers and microphone. The newly designed dual mold cup give a modern and slim look together with bright yellow colour for enhanced visibility.

# **Key Features**

- Newly designed headband
- Bright yellow colour for enhanced visibility
- Slim cup design
- Detachable down lead connector for high flexibility
- Improved speaker efficiency to fit todays digital device
- Water tight microphone (IP68)
- Gel ring approved with Headband and Helmet attachment Headset

### **Applications**

The 3M™ PELTOR™ CH-3 FLX2 Headset can enhance communication in noisy environments. Suitable for work in Pulp and Paper, Construction, Airport applications and other workplaces, where the workers need to be connected to their 2-way handheld or fixed systems throughout the day to help facilitate frequent contacts with co-workers.

# **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. 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.





External jack for communicating with external communication devices.



Noise cancelling boom microphone for clear speech transmission in noise environments

#### **Models**

| Article number | Description   | 3M ID      |
|----------------|---|------------|
| MT74H52A-110   | 3M™ PELTOR™ CH-3 FLX2 Headset, Headband, Yellow                         | 7100203637 |
| MT74H52B-110   | 3M™ PELTOR™ CH-3 FLX2 Headset, Neckband, Yellow                         | 7100203636 |
| MT74H52P3E-110 | 3M™ PELTOR™ CH-3 FLX2 Headset, Helmet attach., Yellow                   | 7100203635 |
| MT74H52A-111   | 3M™ PELTOR™ CH-3 FLX2 Headset with Built-In PTT, Headband, Yellow       | 7100203638 |
| MT74H52B-111   | 3M™ PELTOR™ CH-3 FLX2 Headset with Built-In PTT, Neckband, Yellow       | 7100205729 |
| MT74H52P3E-111 | 3M™ PELTOR™ CH-3 FLX2 Headset with Built-In PTT, Helmet attach., Yellow | 7100203150 |

# **Accessories**

| Article number | Description   | 3M ID      |
|----------------|---|------------|
| HY84           | 3M™ PELTOR™ Hygiene kit                             | 7100212095 |
| HY80           | 3M™ PELTOR™ Gel snap-in cushions                    | 7000127468 |
| HYM1000        | 3M™ PELTOR™ Mike Protector (5m), Black              | 7100064281 |
| M171/2         | 3M™ PELTOR™ Windprotection for MT33/MT73 microphone | 7100112112 |
| HY100A         | 3M™ PELTOR™ Clean Hygiene Pad, 100 pair             | 7100064410 |

| FLX2 cables Article number Description |  | Compabi<br>MT74H52*-110 | 3M ID |            |
|--|--|-------------------------|-------|------------|
| FLX2-200                               | 3M™ PELTOR™ FLX2 Cable J11 Standard                          | •                       |       | 7100185799 |
| FLX2-201                               | 3M™ PELTOR™ FLX2 Cable for Ground Mech                       | •                       |       | 7100207323 |
| FLX2-111                               | 3M™ PELTOR™ FLX2 Cable for Hytera DP7*                       |                         | •     | 7100197719 |
| FLX2-35                                | 3M™ PELTOR™ FLX2 Cable for Icom angeld 2-pin                 |                         | •     | 7100197556 |
| FLX2-44                                | 3M™ PELTOR™ FLX2 Cable for Icom F31/F41                      |                         | •     | 7100197565 |
| FLX2-64                                | 3M™ PELTOR™ FLX2 Cable for Icom F34/F44                      |                         | •     | 7100197568 |
| FLX2-36                                | 3M™ PELTOR™ FLX2 Cable for Kenwood 2-pin                     |                         | •     | 7100193170 |
| FLX2-107-50                            | 3M™ PELTOR™ FLX2 Cable for Kenwood Multipin                  |                         | •     | 7100185797 |
| FLX2-21                                | 3M™ PELTOR™ FLX2 Cable for Motorola GP300/DP1400             |                         | •     | 7100193228 |
| FLX2-32                                | 3M™ PELTOR™ FLX2 Cable for Motorola GP340                    |                         | •     | 7100193227 |
| FLX2-65                                | 3M™ PELTOR™ FLX2 Cable for Motorola GP344                    |                         | •     | 7100197572 |
| FLX2-18                                | 3M™ PELTOR™ FLX2 Cable for Motorola GP900                    |                         | •     | 7100197566 |
| FLX2-63-50                             | 3M™ PELTOR™ FLX2 Cable for Motorola Mototrbo                 |                         | •     | 7100185795 |
| FLX2-101                               | 3M™ PELTOR™ FLX2 Cable for Sepura STP 8*/9*                  |                         | •     | 7100197718 |
| FLX2-28                                | 3M™ PELTOR™ FLX2 Cable for Mobile/Dect phones (2,5mm 3-pol.) |                         | •     | 7100193229 |

# **Technical data specifications**

| Model              | Weight (FLX2 cable excl.)  |
|--------------------|--|
| Headband:          | MT74H52A-110 = 292g (with HY80 = 351g)<br>MT74H52A-111 = 300g (with HY80 = 359g)     |
| Helmet attachment: | MT74H52P3E-110 = 243g (with HY80 = 303g)<br>MT74H52P3E-111 = 251g (with HY80 = 311g) |
| Neckband:          | MT74H52B-110 = 275g<br>MT74H52B-111 = 282g   |

#### **Materials**

| Attachment wire:        | Stainless steel   |
|-------------------------|---|
| Two-point fastener:     | Acetal  |
| Ear cushion:            | PVC foil and polyether foam   |
| Inline foam:            | Polyether foam  |
| Cup:                    | ABS plastic   |
| Operating temperature:  | -20°C to +50°C  |
| FLX2 Connector:         | 6-pin, mini XLR   |
| Speakers:               | 46 mm diameter, 230 Ohm +/-10%,<br>SPL 107 +/- 2dB, 100-8000 Hz, IP54   |
| Speech Microphone type: | Noise cancelling microphone, Dynamic 150 Ohm, IP 68 (6m/30min) Sensitivity71dB±3dB(0dB=1v/Pa 1KHz) @50CM Frequency responce 200Hz ~7KHz |

#### Storage

| Recommended storage conditions: | -20° C - +50° C, <90% humidity |
|---------------------------------|--------------------------------|
| Recommended max, shelf life:    | 5 years                        |

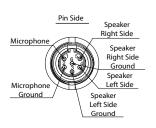
User limitation: Never modify or alter this product

# **Approved Safety Helmets**

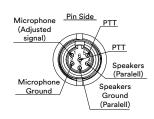
| Helmet Model                       | Size       |
|------------------------------------|------------|
| 3M™ SecureFit™ Safety Helmet X5000 | S/M/L      |
| 3M™ SecureFit™ Safety Helmet X5500 | S/M/L      |
|                                    |            |
| 3M™ G3000 Basic Set                | L          |
| 3M™ G3000 Basic Set<br>3M™ G2000   | L<br>S/M/L |

# Pin configuration

# -110 Headset



# -111 Headset



# **Laboratory Attenuation**

### MT74H52A-110 / MT74H52A-111

EN352-1:2002

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SNR |
|-------------------------------|------|------|------|------|------|------|------|-----|
| Mean Attenuation (dB)         | 14.2 | 21.7 | 34.0 | 35.4 | 35.4 | 33.3 | 35.3 |     |
| Standard deviation (dB)       | 2.2  | 1.8  | 2.2  | 2.5  | 3.2  | 2.4  | 3.0  | 31  |
| Assumed Protection Value (dB) | 12.0 | 19.9 | 31.8 | 32.9 | 32.2 | 30.9 | 32.3 |     |

### MT74H52A-110 / MT74H52A-111 with HY80 GEL rings

| _ | NЗ | 50 | _1. | 2 | $^{\circ}$ | ٠, |
|---|----|----|-----|---|------------|----|
|   |    |    |     |   |            |    |

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SNR |
|-------------------------------|------|------|------|------|------|------|------|-----|
| Mean Attenuation (dB)         | 11.7 | 21.8 | 32.6 | 36.2 | 35.6 | 34.1 | 37.0 |     |
| Standard deviation (dB)       | 2.7  | 3.6  | 4.0  | 2.8  | 3.7  | 2.6  | 4.1  | 29  |
| Assumed Protection Value (dB) | 9.0  | 18.2 | 28.6 | 33.4 | 31.9 | 31.5 | 32.9 |     |

H=33 dB M=27 dB L=17 dB

#### MT74H52B-110 / MT74H52B-111

#### EN352-1:2002

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SNR |
|-------------------------------|------|------|------|------|------|------|------|-----|
| Mean Attenuation (dB)         | 12.3 | 19.8 | 29.9 | 33.4 | 35.1 | 32.3 | 33.6 |     |
| Standard deviation (dB)       | 4.1  | 3.4  | 3.2  | 4.2  | 4.0  | 2.0  | 3.9  | 28  |
| Assumed Protection Value (dB) | 8.2  | 16.4 | 26.7 | 29.2 | 31.1 | 30.3 | 29.7 |     |

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

#### MT74H52P3E-110 / MT74H52P3E-111

## EN352-3:2002

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SNR |
|-------------------------------|------|------|------|------|------|------|------|-----|
| Mean Attenuation (dB)         | 18.2 | 22.4 | 30.0 | 34.0 | 34.9 | 32.4 | 34.2 |     |
| Standard deviation (dB)       | 4.4  | 3.6  | 2.9  | 2.5  | 2.7  | 1.9  | 4.0  | 30  |
| Assumed Protection Value (dB) | 13.8 | 18.8 | 27.1 | 31.5 | 32.2 | 30.5 | 30.2 |     |

M=28 dB L=21 dB

#### MT74H52P3E-110 / MT74H52P3E-111 with HY80 GEL rings EN352-3:2002

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SNR |
|-------------------------------|------|------|------|------|------|------|------|-----|
| Mean Attenuation (dB)         | 17.2 | 21.5 | 29.1 | 34.1 | 35.7 | 30.9 | 35.5 |     |
| Standard deviation (dB)       | 3.5  | 3.2  | 4.1  | 3.1  | 3.4  | 3.1  | 5.8  | 29  |
| Assumed Protection Value (dB) | 13.7 | 18.3 | 25.0 | 31.0 | 32.3 | 27.8 | 29.7 |     |

H=30 dB M=27 dB L=20 dB

WARNING! 3M strongly recommends individual fit testing of hearing protectors. If the NRR or SNR is used to estimate typical workplace protection, 3M recommends that the noise reduction value be reduced by 50% or in accordance with applicable regulations. 3M PSD products are occupational use only.

### In the box

1×3M™ PELTOR™ CH-3 Headset.

1x User instruction

3M Personal Safety Division 3M Svenska AB, Box 2341 SE-331 02 Värnamo Sweden Internet: www.3M.com/PELTOR Email:cstechservice@mmm.com

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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

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