

3M™ PELTOR™ X Series Earmuffs P3

Technical datasheet



Product description

The 3M™ PELTOR™ X Series Earmuffs are available in multiple design styles, including 'helmet mounted' or attachable. When correctly selected and worn these products can help to reduce exposure to hazardous levels of noise.

Offering a colour coding system to quickly and simply visually identify the level of protection being worn. The attenuation values in the attachable ranges from SNR 26 dB to SNR 36 dB, to meet the needs of a wide range of environments and applications.

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 and/or UKCA marking. The full text of the 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.

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). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

Key features

- ▶ Lightweight design (lightest version 185g)
- ▶ Helmet mounted version fits directly to many industrial safety helmets without the need of an adapter
- ▶ Soft wide foam cushions helps reduce pressure around the ears and improves comfort and wearability
- ▶ Innovative damping pads and spacer that helps improve attenuation (X3, X4, X5)
- ▶ 3M designed cushion foam technology helps provide an effective acoustic seal and reliable protection
- ▶ Replaceable cushions and inserts are available separately to extend the life of your earmuffs
- ▶ Easy to understand different colour coding for attenuation values to help select appropriate product for specific application
- ▶ Modern sleek design to help encourage wear whilst ABS plastic cups provide rigid strength and high impact resistance

NOTE: The P3 attachable versions of the X Series are not electrically insulated and replicate the well known 3M™ PELTOR™ Optime™ P3 steel design.



X1P3



X2P3



X3P3



X4P3



X5P3

Images are for illustration only.

Colour code and attenuation values

| Model | Cup colour band | SNR (dB) |
|------------------------------|-----------------|-----------------------|
| | | P3 attachable version |
| 3M™ PELTOR™ Earmuff X1P3 | Green | 26 |
| 3M™ PELTOR™ Earmuff X2P3 | Yellow | 30 |
| 3M™ PELTOR™ Earmuff X2P3-OR | Orange | 30 |
| 3M™ PELTOR™ Earmuff X3P3E | Red | 32 |
| 3M™ PELTOR™ Earmuff X4P3E | Bright Green | 32 |
| 3M™ PELTOR™ Earmuff X4P3E-OR | Orange | 32 |
| 3M™ PELTOR™ Earmuff X5P3E | Black | 36 |

Approved carrier combinations

| Brand | Model number | Adapter code | Head Size | | | | |
|-------|---------------------------------|--------------|-----------|---------|---------|---------|---------|
| | | | X1P3 | X2P3 | X3P3 | X4P3 | X5P3 |
| 3M | G3000 (Basic combination) | E | S, M, L | S, M, L | S, M, L | S, M, L | M, L |
| 3M | G3501 | E | S, M, L | S, M, L | M, L | S, M, L | L |
| 3M | G500 Headgear | E | S, M, L | S, M, L | S, M, L | S, M, L | S, M, L |
| 3M | G22 | E | S, M, L | S, M, L | M, L | S, M, L | L |
| 3M | H700 | E | S, M, L | L | L | S, M, L | L |
| 3M | SecureFit™ X5500 | E | S, M, L | S, M, L | S, M, L | S, M, L | M, L |
| 3M | SecureFit™ X5000 | E | S, M, L | S, M, L | S, M, L | S, M, L | M, L |
| 3M | Speedglas™ 9100MP (M-300) | AF | M, L | M, L | M, L | M, L | L |
| 3M | Speedglas™ 9100 MP-Lite (M-200) | AF | L | L | L | L | L |

Material listing

| Component | Material |
|-----------------------------|---|
| Carrier attachment | POM (Polyoxymethylene), Stainless steel, PA (Polyamide) |
| Cups | ABS, TPU (Thermoplastic Polyurethane) |
| Insert (liner) | PU (Polyurethane) foam |
| Cushions and cushion covers | PVC (Polyvinyl chloride), PU foam |
| X3, X4, X5 Spacer | ABS (Acrylonitrile butadiene styrene) |

Attenuation values and weights - Attachable P3 versions

3M™ PELTOR™ X1P3 Earmuff

EN 352-3:2020

| | Frequency (Hz) <i>f</i> | | | | | | | H | M | L | SNR | █ |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | | | | |
| Mf (dB) | 11.4 | 15.8 | 24.5 | 32.5 | 32.0 | 35.6 | 35.1 | 33.1 | 25.7 | 17.6 | 27.9 | |
| SD (dB) | 3.7 | 2.4 | 2.9 | 2.9 | 3.7 | 2.5 | 4.9 | 2.8 | 2.3 | 2.6 | 2.3 | 185 g |
| APVf (dB) | 7.7 | 13.4 | 21.6 | 29.6 | 28.3 | 33.1 | 30.2 | 30 | 23 | 15 | 26 | |

3M™ PELTOR™ X2P3 Earmuffs

EN 352-3:2020

| | Frequency (Hz) <i>f</i> | | | | | | | H | M | L | SNR | █ |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | | | | |
| Mf (dB) | 13.8 | 20.2 | 30.0 | 37.7 | 35.4 | 34.9 | 35.8 | 35.6 | 29.9 | 21.2 | 31.6 | |
| SD (dB) | 2.8 | 2.1 | 3.2 | 2.6 | 3.0 | 3.0 | 4.7 | 2.5 | 2.0 | 2.1 | 2.0 | 220 g |
| APVf (dB) | 11.0 | 18.1 | 26.8 | 35.1 | 32.4 | 31.9 | 31.1 | 33 | 28 | 19 | 30 | |

3M™ PELTOR™ X3P3 Earmuff

EN 352-3:2020

| | Frequency (Hz) <i>f</i> | | | | | | | H | M | L | SNR | █ |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | | | | |
| Mf (dB) | 20.0 | 24.2 | 27.4 | 40.1 | 36.0 | 39.7 | 37.0 | 37.1 | 31.7 | 25.8 | 33.8 | |
| SD (dB) | 2.8 | 1.7 | 2.1 | 3.0 | 3.0 | 3.5 | 3.7 | 2.2 | 1.5 | 1.6 | 1.4 | 247 g |
| APVf (dB) | 17.2 | 22.5 | 25.3 | 37.1 | 33.0 | 36.2 | 33.3 | 35 | 30 | 24 | 32 | |

3M™ PELTOR™ X4P3 Earmuffs

EN 352-3:2020

| | Frequency (Hz) <i>f</i> | | | | | | | H | M | L | SNR | █ |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | | | | |
| Mf (dB) | 16.8 | 21.8 | 30.6 | 40.1 | 36.7 | 43.1 | 41.9 | 38.8 | 31.7 | 23.5 | 33.8 | |
| SD (dB) | 2.5 | 2.1 | 1.9 | 2.3 | 3.7 | 2.7 | 4.7 | 3.0 | 1.5 | 1.9 | 1.5 | 236 g |
| APVf (dB) | 14.3 | 19.7 | 28.7 | 37.8 | 33.0 | 40.4 | 37.2 | 36 | 30 | 22 | 32 | |

3M™ PELTOR™ X5P3 Earmuff

EN 352-3:2020

| | Frequency (Hz) <i>f</i> | | | | | | | H | M | L | SNR | █ |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | | | | |
| Mf (dB) | 22.0 | 26.9 | 38.2 | 43.5 | 38.7 | 41.0 | 40.4 | 39.7 | 36.5 | 28.8 | 37.8 | |
| SD (dB) | 3.1 | 2.2 | 2.8 | 3.4 | 4.5 | 2.5 | 3.3 | 3.3 | 2.0 | 2.3 | 2.1 | 353 g |
| APVf (dB) | 18.9 | 24.7 | 35.4 | 40.1 | 34.2 | 38.5 | 37.1 | 36 | 35 | 27 | 36 | |

Attenuation table key:

f = Test frequency

Mf = Mean attenuation value

SD = Standard deviation

APVf (Mf - SD) = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with LC - LA = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with LC - LA = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with LC - LA = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear).

Accessories/replacement

The cushions and inserts on the 3M™ PELTOR™ X Series earmuffs can be replaced with the hygiene kits listed below to maintain consistent protection, hygiene, and comfort.

Hygiene kits:

| Earmuff model | Hygiene kit |
|--------------------------|-------------|
| 3M™ PELTOR™ Earmuff X1P3 | HYX1 |
| 3M™ PELTOR™ Earmuff X2P3 | HYX2 |
| 3M™ PELTOR™ Earmuff X3P3 | HYX3 |
| 3M™ PELTOR™ Earmuff X4P3 | HYX4 |
| 3M™ PELTOR™ Earmuff X5P3 | HYX5 |

In addition, HY100 sweat pads are also available that can be placed on the cushions to help absorb moisture and sweat.

Important notice

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application.

As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms & conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.