

3M™ PELTOR™ Earmuffs – X Series Ordering Information

Product #	3M ID #	Product Description	Case Qty
X1A	10093045937230	X1 Over-the-Head Earmuff, Green	10 EA
X1P3E	10093045937285	X1 Hard Hat-Attached Earmuff, Green	10 EA
X1P5E	10078371671003	X1 Hard Hat-Attached Electrically Insulated, Green	10 EA
X2A	10093045937247	X2 Over-the-Head Earmuff, Yellow	10 EA
X2P3E	10093045937292	X2 Hard Hat-Attached Earmuff, Yellow	10 EA
X2P5E	10078371671010	X2 Hard Hat-Attached Electrically Insulated, Yellow	10 EA
X3A	10093045937254	X3 Over-the-Head Earmuff, Red	10 EA
X3P3E	10093045937308	X3 Hard Hat-Attached Earmuff, Red	10 EA
X3P5E	10078371671027	X3 Hard Hat-Attached Electrically Insulated, Red	10 EA
X4A	10093045937261	X4 Over-the-Head Earmuff, Lt. Green	10 EA
X4P3E	10093045937315	X4 Hard Hat-Attached Earmuff, Lt. Green	10 EA
X4P5E	10078371671034	X4 Hard Hat-Attached Electrically Insulated, Lt. Green	10 EA
X5A	10093045937278	X5 Over-the-Head Earmuff, Black	10 EA
X5P3E	10093045937322	X5 Hard Hat-Attached Earmuff, Black	10 EA
X5P5E	10078371671041	X5 Hard Hat-Attached Electrically Insulated, Black	10 EA

Forestry Ordering Information

Product #	3M ID #	Product Description	Case Qty
X1P5E-OR	50051131272878	X1 Hard-Hat Attached Electrically Insulated, Orange	10PR
X4A-OR	50051131272885	X4 Over-the-Head Earmuff, Orange	10 PR
X4P5E-OR	50051131272892	X4 Hard Hat-Attached Electrically Insulated, Orange	10 PR

Hygiene Kit and Probed Test Cushion Ordering Information

Product #	3M ID #	Product Description	Case Qty
HYX1	10093045937339	Replacement Hygiene Kit for X1 earmuff models	1 PR
HYX2	10093045937346	Replacement Hygiene Kit for X2 earmuff models	1 PR
393-3001-2	00078371668341	X1/X2 Probed Test Cushions	2 PR
HYX3	10093045937353	Replacement Hygiene Kit for X3 earmuff models	1 PR
393-3003-2	00078371668358	X3 Probed Test Cushions	2 PR
HYX4	10093045937360	Replacement Hygiene Kit for X4 earmuff models	1 PR
HYX5	10093045937377	Replacement Hygiene Kit for X5 earmuff models	1 PR
393-3005-2	00078371668365	X4/X5 Probed Test Cushions	2 PR

Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models		Band Position: Over-the-Head										
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X1A	Mean Attenuation (dB)	16.0	18.3	27.7	37.6	35.1	42.2	41.4	39.4	39.3	22 dB	A
	Standard Deviation (dB)	5.2	3.1	3.0	3.5	2.8	2.8	2.6	2.6	3.8		
X2A	Mean Attenuation (dB)	14.9	21.6	31.8	41.0	36.7	39.1	38.5	39.0	39.0	24 dB	A
	Standard Deviation (dB)	4.2	3.3	2.3	2.5	3.0	2.4	2.0	2.8	3.4		
X3A	Mean Attenuation (dB)	23.4	27.7	29.4	42.5	38.8	39.3	42.3	39.5	39.5	28 dB	AL
	Standard Deviation (dB)	3.0	2.1	3.1	2.6	2.7	4.0	3.3	2.6	2.8		
X4A	Mean Attenuation (dB)	20.5	24.1	32.8	40.7	37.6	44.5	45.4	42.4	42.3	27 dB	AL
	Standard Deviation (dB)	4.6	3.4	1.9	2.8	2.9	3.1	2.5	3.1	3.0		
X5A	Mean Attenuation (dB)	23.9	30.5	41.1	43.0	38.0	43.1	44.0	41.1	40.3	31 dB	AL
	Standard Deviation (dB)	4.1	2.2	2.8	2.9	2.7	2.9	2.4	2.6	2.2		

Hard Hat-Attached Models Tested on 3M H-700 Hard Hat

Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X1P3E	Mean Attenuation (dB)	13.8	17.3	27.4	35.6	34.5	41.8	40.1	36.8	36.1	21 dB	B
	Standard Deviation (dB)	4.5	3.2	2.9	2.8	2.9	2.9	2.9	3.7	4.1		
X1P5E	Mean Attenuation (dB)	15.2	21.3	32.6	39.2	35.9	37.7	37.1	38.6	37.3	24 dB	A
	Standard Deviation (dB)	4.2	3.1	2.8	3.2	3.3	2.8	2.1	2.5	3.0		
X2P3E	Mean Attenuation (dB)	19.6	24.1	29.7	39.1	35.7	38.2	40.3	37.1	35.4	25 dB	AL
	Standard Deviation (dB)	3.3	3.1	2.5	3.9	3.1	4.7	3.5	4.4	4.9		
X3P3E	Mean Attenuation (dB)	18.1	21.6	32.4	40.1	36.5	44.2	46.2	43.7	43.3	25 dB	A
	Standard Deviation (dB)	4.9	2.6	2.0	2.3	3.2	3.9	2.7	2.4	3.0		
X4P3E	Mean Attenuation (dB)	21.6	29.3	41.0	42.4	37.5	41.7	42.5	40.6	40.5	31 dB	AL
	Standard Deviation (dB)	3.2	2.5	2.8	3.1	2.2	2.3	2.5	2.9	2.6		

Fitting Instructions For Headband Models

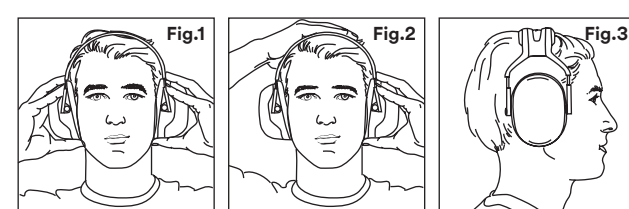


Fig. 1 Position the earcups over your ears so the cushions fully enclose the ears and seal tightly against the head.

Fig. 2 Adjust the height of each earcup while holding the headband down until you have a tight and comfortable fit that exerts even pressure around the ears.

Fig. 3 The headband should sit straight on the head.

Fitting Instructions For Hard Hat-Attached Models

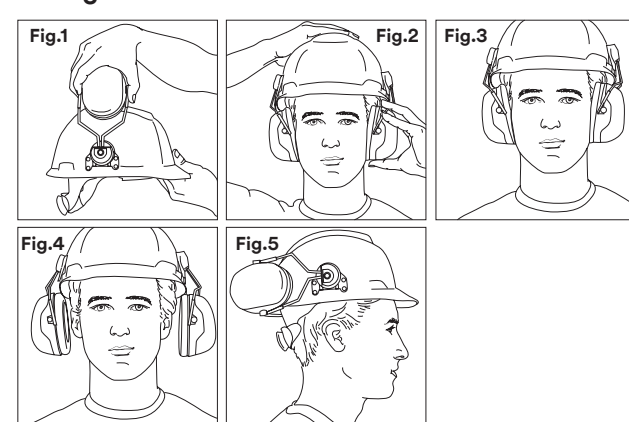


Fig. 1 Insert the hard hat slot adapters into the slots on each side of the hard hat until they click into place.

Fig. 2 When in use, the attachment arms must be pushed inward until you hear a click on both sides, indicating a shift from "stand-by" to "usage" position. Position the earcups over your ears so that the cushions fully enclose the ears and seal tightly against the head. Adjust the position of each earcup while holding the helmet in place until you have a tight and comfortable fit that exerts even pressure around the ears. Make sure the cups and attachment arms are not in contact with the inner lining or the edge of the hard hat when in the "usage" position, otherwise this may lead to leakage. The cups can be placed in three positions:

Fig. 3 Usage position

Fig. 4 Stand-by position

Fig. 5 Up position

Note: In Canada, users of hard hats combined with earmuffs must refer to CSA Standard Z94.1 on industrial protective headwear.

* Electrically Insulated. Non-conductive (sometimes referred to as "dielectric") material covers the metal components of the helmet attachment and headband mechanisms. These earmuffs have been evaluated at an external laboratory against a modified test method based on EN 397:2012 under dry conditions. The metal parts of the headband and hard hat attachment are electrically insulated with standing a voltage up to 1.2 kV. The user must determine the overall suitability of this product for the intended application taking into account any hazards other than noise for which this product is tested and approved.

3M™ PELTOR™ Earmuffs – X Series

Technical Data Specifications

Materials

Component	Headband Version	Hard Hat-Attached Version
Headband	Stainless steel wire, TPE, Polyester, Polypropylene, Acetal	N/A
P3E Hard Hat Attachment	N/A	Stainless steel wire, Acetal, Polyamide
P5E Hard Hat Attachment	N/A	Acetal, Polyamide, Polyester
Earcups	ABS/TPU	ABS/TPU
Earcup Inserts	PU Foam	PU Foam
Earcup Cushions	PU Foam and PVC	PU Foam and PVC

Weight

Model	Weight
X1A	6.49
X1P3E	6.53
X1P5E	6.63
X2A	7.76
X2P3E	7.76
X2P5E	8.01
X3A	8.64
X3P3E	8.71
X3P5E	9.31
X4A	8.25
X4P3E	8.32
X4P5E	8.50
X5A	12.38
X5P3E	12.45
X5P5E	12.59

Standard & Approval

In the United States and Canada there is no approval process for hearing protection. The standards organizations ANSI and CSA do not approve or certify hearing protectors. However, a U.S. EPA requirement (40 CFR 211) specifies that hearing protectors sold in the U.S. must be tested to ANSI S3.19-1974 and labeled with a Noise Reduction Rating (NRR). 3M Hearing Protectors have been tested and labeled accordingly.

Fit Testing

3M strongly recommends fit testing of hearing protectors. The following probed earmuff cushions are available to allow measurement of the Personal Attenuation Rating (PAR) of 3M™ PELTOR™ X-Series Earmuffs using the 3M™ E-A-Rfit™ Dual-Ear Validation System. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.

Earmuff Model	Probed Test Cushion Part #
X1 and X2 Models	393-3001-2
X3 Models	393-3003-2
X4 and X5 Models	393-3005-2

Accessories/Replacement

The earcup cushions and inserts on X Series earmuffs can be replaced with the Hygiene Kits listed below.

Earmuff Model	Hygiene Kit Part #
X1 Models	HYX1
X2 Models	HYX2
X3 Models	HYX3
X4 Models	HYX4
X5 Models	HYX5

WARNING

Hearing Protection Products*
These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor, User Instructions, or call 3M PSD Technical Service in the USA at 1-800-243-4630. If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing earplugs. Failure to do so may result in hearing loss or injury.

** 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to factors including variation in earplug fit, and earplug fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.

Care and Cleaning Instructions

Follow recommended care and cleaning instructions in order to maintain best noise reduction and function. Wash outside of earmuffs only. Use mild soap and water. Do not immerse in water. Do not clean with solvents such as alcohol or acetone, or with waterless hand cleaners or products containing lanolin.

Do not store the earmuffs in temperatures above 130°F (+55°C), for example just behind a windshield or window. Inspect earmuffs regularly for cracked or worn parts, especially the cushions. Replace as needed. 3M recommends replacing cushions and foam liners at least twice a year in order to maintain performance and comfort. Replace earmuffs if the helmet attachment arms are damaged or no longer provide enough force to hold the earcups firmly in place.



3M Hearing Solutions
Noise exposure,
meet hearing
protection

3M™ PELTOR™ Earmuffs — X Series

The 3M™ PELTOR™ Earmuffs - X Series are available in headband and hard hat attached versions. With Noise Reduction Rating (NRR) values ranging from 21 to 31 dB, the X Series makes it easier than ever to match the attenuation of the earmuff with the noise exposure of the worker. When correctly selected and worn these products help reduce exposure to hazardous levels of noise and loud sounds.

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Personal Safety Division
3M Center, Building 235-2NW-70
St. Paul, MN 55144-1000
3M.com/peltorxseries

For More Information
Technical Service 1-800-243-4630
Customer Service 1-800-328-1667
70-0716-2607-4

3M™ PELTOR™ Earmuffs X Series X marks the spot for comfortable hearing protection



Key Features

- ▶ **Rugged headbands and attachment arms** help maintain comfortable pressure all day
- ▶ **Easily adjustable plastic guides** help move the cup position comfortably while the earmuff is on the head
- ▶ **Durable, long-lasting ABS plastic cups** with soft overmolding are designed to perform even in tough work conditions
- ▶ **Wide, soft foam ear cushions** designed for high comfort and an effective seal with the head



3M™ PELTOR™ Earmuffs — X Series

Featuring the most advanced technology of the PELTOR™ Earmuffs product line to meet the needs of an extensive range of industrial applications. Electrically-insulated models are available in over-the-head and hard hat-attached styles.

3M™ PELTOR™ Earmuffs — X Series Forestry

X-Series Forestry orange earmuffs are designed to meet the needs of your crew and is protection they will want to wear.



Earcup Options	Electrically Insulated		Hard Hat-Attached	Forestry	Hygiene Kits	Probed Test Cushions
	A Models	P5E Models	P3E Models			
 <p>X1 Ultra slim earmuffs for low noise environments</p>	 <p>X1A NRR 22 dB</p>	 <p>X1P5E NRR 21 dB</p>	 <p>X1P3E NRR 21 dB</p>	 <p>X1P5E-OR NRR 21 dB</p>	 <p>X1 Kit</p>	 <p>X1/X2 Probed Test Cushion</p>
 <p>X2 Lightweight earmuffs for low - moderate noise environments</p>	 <p>X2A NRR 24 dB</p>	 <p>X2P5E NRR 24 dB</p>	 <p>X2P3E NRR 24 dB</p>		 <p>X2 Kit</p>	 <p>X1/X2 Probed Test Cushion</p>
 <p>X3 High protection earmuffs for moderate - high noise environments</p>	 <p>X3A NRR 28 dB</p>	 <p>X3P5E NRR 25 dB</p>	 <p>X3P3E NRR 25 dB</p>		 <p>X3 Kit</p>	 <p>X3 Probed Test Cushion</p>
 <p>X4 High protection earmuffs for moderate - high noise environments</p>	 <p>X4A NRR 27 dB</p>	 <p>X4P5E NRR 25 dB</p>	 <p>X4P3E NRR 25 dB</p>	 <p>X4A-OR NRR 27 dB</p>  <p>X4P5E-OR NRR 25 dB</p>	 <p>X4 Kit</p>	 <p>X4/X5 Probed Test Cushion</p>
 <p>X5 High protection earmuffs for high noise environments</p>	 <p>X5A NRR 24 dB</p>	 <p>X5P5E NRR 31 dB</p>	 <p>X5P3E NRR 31 dB</p>		 <p>X5 Kit</p>	 <p>X4/X5 Probed Test Cushion</p>

