

3M™ PELTOR™ Earmuffs – X Series Ordering Information

Product #	UPC #	3M ID #	Product Description	Case Qty
X1A	10093045937230	XA007707830	X1 Over-the-Head Electrically Insulated Earmuff, Green	10 EA
X1B	10078371671270	UU008197715	X1 Behind-the-Head Earmuff, Green	10 EA
X1P3E	10093045937285	XA007707889	X1 Hard Hat-Attached Earmuff, Green	10 PR
X1P5E	10078371671003	UU007831710	X1 Hard Hat-Attached Electrically Insulated Earmuff, Green	10 PR
X1P51E	10078371671355	UU008938514	X1 Full Brim Hard Hat-Attached Electrically Insulated Earmuff, Green	10 PR
X2A	10093045937247	XA007707848	X2 Over-the-Head Electrically Insulated Earmuff, Yellow	10 EA
X2B	10078371671263	UU008197723	X2 Behind-the-Head Earmuff, Yellow	10 EA
X2P3E	10093045937292	XA007707897	X2 Hard Hat-Attached Earmuff, Yellow	10 PR
X2P5E	10078371671010	UU007831728	X2 Hard Hat-Attached Electrically Insulated Earmuff, Yellow	10 PR
X3A	10093045937254	XA007707855	X3 Over-the-Head Electrically Insulated Earmuff, Red	10 EA
X3B	10078371671256	UU008197822	X3 Behind-the-Head Earmuff, Red	10 EA
X3P3E	10093045937308	XA007707905	X3 Hard Hat-Attached Earmuff, Red	10 PR
X3P5E	10078371671027	UU007830977	X3 Hard Hat-Attached Electrically Insulated Earmuff, Red	10 PR
X4A	10093045937261	XA007707863	X4 Over-the-Head Electrically Insulated Earmuff, Lt. Green	10 EA
X4B	10078371671249	UU008197848	X4 Behind-the-Head Earmuff, Lt. Green	10 EA
X4P3E	10093045937315	XA007707913	X4 Hard Hat-Attached Earmuff, Lt. Green	10 PR
X4P5E	10078371671034	UU007831744	X4 Hard Hat-Attached Electrically Insulated Earmuff, Lt. Green	10 PR
X4P51E	10078371671362	UU008938811	X4 Full Brim Hard Hat-Attached Electrically Insulated Earmuff, Lt. Green	10 PR
X5A	10093045937278	XA007707871	X5 Over-the-Head Electrically Insulated Earmuff, Black	10 EA
X5B	10078371671232	UU008197863	X5 Behind-the-Head Earmuff, Black	10 EA
X5P3E	10093045937322	XA007707921	X5 Hard Hat-Attached Earmuff, Black	10 PR
X5P5E	10078371671041	UU007831769	X5 Hard Hat-Attached Electrically Insulated Earmuff, Black	10 PR

3M™ PELTOR™ Wireless Communication Accessory

Product #	3M ID #	Product Description	Case Qty
WS-CUSH	UU009011832	3M™ PELTOR™ Wireless Communication Accessory designed for X Series Earmuffs	10 EA

Forestry Ordering Information

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

Hygiene Kit and Probed Test Cushion Ordering Information

Product #	UPC #	Product Description	Case Qty
HYX1	04046719723478	Replacement Hygiene Kit for X1 earmuff models	1 PR
HYX2	04046719723492	Replacement Hygiene Kit for X2 earmuff models	1 PR
393-3001-2	10078371668348	X1/X2 Probed Test Cushions	2 PR
HYX3	04046719723515	Replacement Hygiene Kit for X3 earmuff models	1 PR
393-3003-2	10078371668355	X3 Probed Test Cushions	2 PR
HYX4	04046719723591	Replacement Hygiene Kit for X4 Earmuff models and for Wireless Communication Accessory	1 PR
HYX5	04046719723645	Replacement Hygiene Kit for X5 earmuff models	1 PR
393-3005-2	10078371668362	X4/X5 Probed Test Cushions	2 PR

Grey color indicates electrically insulated

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 withstanding 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.

▲ Fit Testing Warning

* 3M strongly recommends fit testing of hearing protectors. 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.

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

Headband Models		Band Position: Over-the-Head											NRR*	CSA Class	
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	10000				
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					

Behind-the-Head Models

Behind-the-Head Models		Band Position: Behind-the-Head											NRR*	CSA Class	
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	10000				
X1B	Mean Attenuation (dB)	14.8	15.5	25.9	34.9	35.2	40.6	38.6	37.1	37.3			22	dB	A
	Standard Deviation (dB)	3.2	1.9	2.5	2.9	2.7	2.6	3.1	3.2	3.2					
X2B	Mean Attenuation (dB)	16.5	20.7	30.3	38.3	37.4	38.3	36.5	36.4	36.8			25	dB	A
	Standard Deviation (dB)	2.5	2.1	2.5	2.5	2.8	2.9	3.1	2.7	2.1					
X3B	Mean Attenuation (dB)	24.0	24.1	30.2	39.4	39.8	40.5	39.5	40.3	39.2			28	dB	AL
	Standard Deviation (dB)	3.2	2.4	2.1	2.9	2.6	2.9	3.3	2.9	1.7					
X4B	Mean Attenuation (dB)	20.1	20.4	29.9	38.9	38.7	43.4	44.9	43.2	42.7			27	dB	AL
	Standard Deviation (dB)	2.8	2.0	2.3	2.5	2.6	3.2	2.0	2.5	2.8					
X5B	Mean Attenuation (dB)	25.1	27.6	39.1	43.5	38.8	41.1	42.7	41.9	40.3			31	dB	AL
	Standard Deviation (dB)	3.1	2.4	3.3	3.1	2.5	2.7	3.3	2.3	2.7					

Standard Style Hard Hat-Attached Models

Standard Style Hard Hat-Attached Models		Tested on 3M H-700 Hard Hat											NRR*	CSA Class	
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	10000				
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					
X2P3E	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					
X3P3E	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					
X4P3E	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					
X5P3E	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					

Full Brim Hard Hat-Attached Models

Full Brim Hard Hat-Attached Models		Tested on 3M H-800 Full Brim Hard Hats											NRR*	CSA Class	
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	10000				
X1P51E	Mean Attenuation (dB)	13.4	16.0	25.5	32.2	37.2	40.0	36.1	33.5	32.8			20	dB	B
	Standard Deviation (dB)	3.4	3.0	3.5	3.3	2.7	2.7	3.4	2.3	3.2					
X4P51E	Mean Attenuation (dB)	17.5	20.5	30.1	38.9	39.5	43.6	44.1	42.9	42.1			26	dB	A
	Standard Deviation (dB)	3.0	2.4	2.7	2.5	2.3	2.6	2.9	2.1	2.6					

* See Fit Test Warning

Overview of User Instructions For Headband Models (see packaging for full details)



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.

Overview of User Instructions For Hard Hat-Attached Models (see packaging for full details)

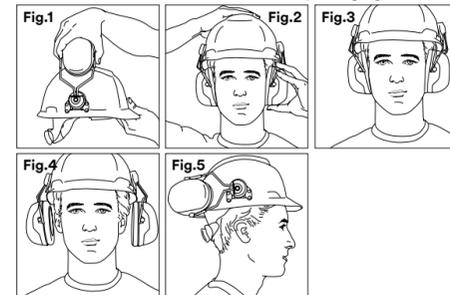


Fig. 1 Insert the hard hat slot adapters into the slots on each side of the hard hat until they click into place.

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.

Overview of User Instructions For Behind-the-Head Models (see packaging for full details)



Fig. 1 Each end of the strap should be held in place between the cushion and ear cup.

Fig. 2 Position the earcups over your ears so that the cushions fully enclose the ears and seal tightly against the head. Adjust the height of each earcup (Fig. 2) until you have a tight and comfortable fit that exerts even pressure around the ears.

Fig. 3 To adjust the length of the head strap pull the two halves apart then re-attach so that the strap is secure across the top of your head.



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For More Information
Technical Service 1-800-243-4630
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3M™ PELTOR™ Earmuffs – X Series Technical Specifications

Materials

Component	Headband Version	Hard Hat-Attached Version
Over-the-Head Band	Stainless steel wire, TPE, Polyester, Polypropylene, Acetal	N/A
P3E Hard Hat Attachment	N/A	Stainless steel wire, Acetal, Polyamide
P5E and P51E Hard Hat Attachment	N/A	Acetal, Polyamide, Polyester
Behind the Head Band	Stainless steel wire, Acetal, Polyamide, PET	N/A
Earcups	ABS/TPU	ABS/TPU
Earcup Inserts	PU Foam	PU Foam
Earcup Cushions	PU Foam and PVC	PU Foam and PVC

Standards & Approvals

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 Warning

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

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 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 headband or helmet attachment arms are damaged or no longer provide enough force to hold the earcups firmly in place.

▲ 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 correct use, consult supervisor and User Instructions, or call 3M Technical Service at 1-800-

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



Key Features

- Rugged headbands and attachment arms** help maintain comfortable pressure and protection 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™ X Series Behind-the-Head Earmuff

The 3M™ PELTOR™ X Series Behind-the-Head Earmuff pairs adaptability with function, allowing workers to protect their hearing while wearing other protective headgear.



3M™ PELTOR™ Wireless Communication Accessory

Add Wireless communication accessory to any X Series over the head or hard hat attached P5E models.



Earcup Options	Electrically Insulated				Non Electrically Insulated		Hygiene Kits	Probed Test Cushions	
	Over the Head	Hard Hat Attached	Full Brim Hard Hat Attached	Forestry	Behind the Head	Hard Hat Attached			
X1 Ultra slim earmuffs for low noise environments	X1A NRR 22 dB	X1P5E NRR 21 dB	X1P51E NRR 20 dB	X1P5E-OR NRR 21 dB	X1B NRR 22 dB	X1P3E NRR 21 dB	X1 Kit	X1/X2 Probed Test Cushion	
X2 Lightweight earmuffs for low - moderate noise environments	X2A NRR 24 dB	X2P5E NRR 24 dB			X2B NRR 25 dB	X2P3E NRR 24 dB	X2 Kit	X1/X2 Probed Test Cushion	
X3 Earmuffs for moderate - high noise environments	X3A NRR 28 dB	X3P5E NRR 25 dB			X3B NRR 28 dB	X3P3E NRR 25 dB	X3 Kit	X3 Probed Test Cushion	
X4 Slim/lightweight, protection earmuffs for moderate - high noise environments	X4A NRR 27 dB	X4P5E NRR 25 dB	X4P51E NRR 26 dB	X4A-OR NRR 27 dB	X4P5E-OR NRR 25 dB	X4B NRR 27 dB	X4P3E NRR 25 dB	X4 Kit	X4/X5 Probed Test Cushion
X5 Earmuffs for high noise environments	X5A NRR 31 dB	X5P5E NRR 31 dB			X5B NRR 31 dB	X5P3E NRR 31 dB	X5 Kit	X4/X5 Probed Test Cushion	

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