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MANSOUR GROUP

3M™ PELTOR™ X Series Earmuffs P5

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 models range from SNR 27 dB to SNR 36 dB to meet the needs of a wide range of environments and applications.

Electrically insulated (dielectric) properties:

- The metal wire of the P5 attachable model is covered in a non conductive material
- They were found to be electrically insulated, withstanding a voltage up to 1.2 kV, at an external laboratory against a modified test method based on EN 397:2012 under dry conditions
- 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

Key features

- Lightweight design (lightest version 183g)
- Electrically insulated arms with no exposed wires helps protect against electrical voltage hazards
- P5 electrically insulated helmet attachment system for easy snapping in and out of 'working position'
- Helmet mounted version fits directly to many industrial safety helmets without the need of any 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

X1P5E

X2P5E

X3P5E

X4P5E

X5P5E

Images are for illustration only.

Colour code and attenuation values

Model	Cup colour band	SNR (dB) P5 attachable version
3M™ PELTOR™ Earmuff X1P5E	Green	27
3M™ PELTOR™ Earmuff X2P5E	Yellow	31
3M™ PELTOR™ Earmuff X3P5E	Red	32
3M™ PELTOR™ Earmuff X4P5E	Bright Green	31
3M™ PELTOR™ Earmuff X5P5E	Black	36

Approved carrier combinations

Brand	Model number	Adapter code	Head Size X1P5	X2P5	X3P5	X4P5	X5P5
3M	G3000 (Basic combination)	E	M, L	M, L	M, L	M, L	L
3M	G3501	E	M, L	M, L	M, L	M, L	L
3M	G500 Headgear	E	M, L	M, L	M, L	M, L	M, L

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.

Material listing

Component	Material
Carrier attachment	POM (Polyoxymethylene), Stainless steel, PA (Polyamide)
Two-point fastener	POM
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 P5 versions

3M™ PELTOR™ X1P5E Earmuff

	Frequency (Hz) *f*							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	10.1	16.2	26.7	33.7	35.7	41.3	35.1	36.1	26.3	17.3	28.7	183 g
SD (dB)	2.5	2.1	3.1	3.0	2.4	2.4	2.4	1.5	1.8	2.0	1.6	
APVf (dB)	7.6	14.1	23.6	30.7	33.3	38.8	32.7	35	25	15	27	

3M™ PELTOR™ X2P5E Earmuff

EN 352-3:2020

	Frequency (Hz) *f*							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	12.5	20.3	30.3	38.4	36.3	37.1	35.7	36.8	29.7	20.4	31.5	214 g
SD (dB)	2.1	1.9	2.7	2.4	3.1	2.1	3.1	2.1	1.1	1.6	1.0	
APVf (dB)	10.4	18.4	27.6	36.0	33.2	34.9	32.6	35	29	19	31	

3M™ PELTOR™ X3P5E Earmuff

EN 352-3:2020

	Frequency (Hz) *f*							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	18.4	24.1	29.9	40.1	36.4	38.7	36.2	37.1	32.4	25.2	34.1	254 g
SD (dB)	4.2	2.6	2.8	2.7	3.4	2.6	3.1	2.4	2.2	3.1	2.1	
APVf (dB)	14.2	21.5	27.1	37.4	33.0	36.1	33.2	35	30	22	32	

3M™ PELTOR™ X4P5E Earmuffs

EN 352-3:2020

	Frequency (Hz) *f*							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	14.8	20.6	30.8	39.8	36.4	45.5	40.6	39.0	30.8	21.9	33.0	236 g
SD (dB)	2.5	2.3	2.5	2.1	2.4	1.9	3.0	1.8	1.7	2.0	1.6	
APVf (dB)	12.3	18.4	28.3	37.7	34.0	43.5	37.6	37	29	20	31	

3M™ PELTOR™ X5P5E Earmuff

EN 352-3:2020

	Frequency (Hz) *f*							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	20.5	28.9	40.4	43.3	36.8	41.8	39.1	38.6	36.8	28.8	37.7	342 g
SD (dB)	2.4	1.6	3.0	3.7	3.8	1.4	3.1	3.0	1.6	2.0	1.7	
APVf (dB)	18.1	27.3	37.4	39.6	33.0	40.5	35.9	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).

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