

Indication of too noisy at your workplace

It is recommended that all worker exposures to noise should be controlled below a level equivalent to 85 dB for eight hours to minimize occupational noise induced hearing loss. NIOSH recommends a 3 dB exchange rate so that every increase by 3 dB doubles the amount of the noise and halves the recommended amount exposure time. Regulation recommends employers to implement a hearing conservation program where workers are exposed to a time weighted average noise level of 85 dB or higher over an 8 hour work shift

Key elements of an effective hearing conservation program included:

- Workplace noise sampling including personal noise monitoring
- Noise control
- Maintaining a worker audiometric testing program
- Selection of proper hearing protection devices
 - * Disposable earplugs (User mould)
 - * Reusable earplugs (Pre mould)
 - * Earmuffs
 - * Communication headset
- Training to ensure the workers are aware of the hazard from excessive noise exposures
- Data records regarding monitoring and noise sampling

HEARING PROTECTION

3M™ E-A-Rsoft™ Disposable Yellow Neon

3M-310-1250 - Uncorded pillow pack / 3M 312-1250 Uncorded Poly Bag / 3M-311-1250 - Corded in Poly Bag

- Shaped, self-adjusting foam provides a comfortable, low pressure seal
- Non-irritating, dermatologically safe foam
- Soft foam plugs for increased wearer comfort
- NRR 33dB



3M™ Disposable Foam Earplugs

3M-1110 - Corded / 3M-1100 - Uncorded

- Tapered shape to fit the ear canal comfortably
- Soft foam seals the ear comfortably
- Smooth, dirt resistant surface for hygiene
- Comfortable for a wide range of ear sizes
- Hypo-allergenic material
- Bright orange color for visibility
- Can be combined with ear muffs for additional protection
- Can be used with other personal protection equipment
- NRR 29dB



3M™ Classic™ Disposable Earplugs

3M-310-1001 - Uncorded Pillow Pack

- Slow recovery foam allows user to wear the earplug easily
- Bright yellow color allows a quick visual compliance check
- Dermatologically safe foam in non-irritating, nonflammable, and moisture-resistant
- NRR 29dB





3M™ Reusable Earplugs

3M-1290 - Braided cord / 3M-1291 - Braided cord with storage case

3M-1292 - Plastic cord / 3M-1293 - Plastic cord with storage case/

- 3-flange design fits securely in the ear
- Finger grip stem for easy insertion and to help keep ear plugs clean
- Elastic material does not contain silicone, so earplugs may be used in sensitive work environments, such as automotive painting
- One size fits most ear canals
- NRR 25dB



3M™ Reusable Earplugs 3M-1270 - Corded with polybag / 3M-1271 - Corded with carry case / 3M-1271P - Corded with carry case

- New softer formulation provides added comfort
- New finger grip design makes insertion easier
- Multi- flanged plugs fit securely into ear canal
- Soft, elastic material conforms to a wide range of ear sizes comfortably
- No need to roll plugs down before inserting ideal for dusty, dirty situations
- Can be washed and reused many times
- Soft, cloth cord lays flat
- Includes storage case which keeps plugs clean and protected (1271 only)
- NRR 24dB



3M™ E-A-R™ UltraFit™ Corded Reusable Earplugs

3M-340-4002- In carrying case /

3M-340-4004- In poly bag earplug

- Patented, premolded, triple-flange design inserts easily
- No rolling or sizing needed to get a comfortable, protective fit
- Hypoallergenic polymer is washable and reusable
- Carrying case keeps plugs clean and accessible for re-use
- NRR 25dB



3M™ TaperFit™ 2 Disposable Earplugs 3M-312-1223 - Corded

- Soft, roll-down foam earplugs expand to fit the ear canal and provide a low pressure, comfortable seal
- Non-irritating, dermatologically safe polyurethane foam
- NRR 32dB



HEARING PROTECTION

Quebee Reusable Earplugs corded and uncorded With Carrying case



EC-2018A
Reusable Earplug with carrying case

General Description

Quebee Silicon reusable Earplug offer SNR33dB and NRR26dB attenuation protection. This new translucent Christmas tree 3 layers design increased user comfort and protection. The High visibility stem allow just one hand insertion and easy visible from a distance for compliance.

Feature and Benefits

- Comfortable
- Pure silicon material for low pressure inside the ear.
- Reusable and remain in good shape after long use.
- Humidity and sweat resistant, help prevent moisture ramp up in the ear canal.
- 3 layers design allows fully attached to ear canal
- Design to fit majority ear canal with premium comfort and protection
- Convenient
- Christmas tree design fits most ear canal making the plugs easier to use
- Compatibility
- Designed to be compatible with earmuff or other PPE

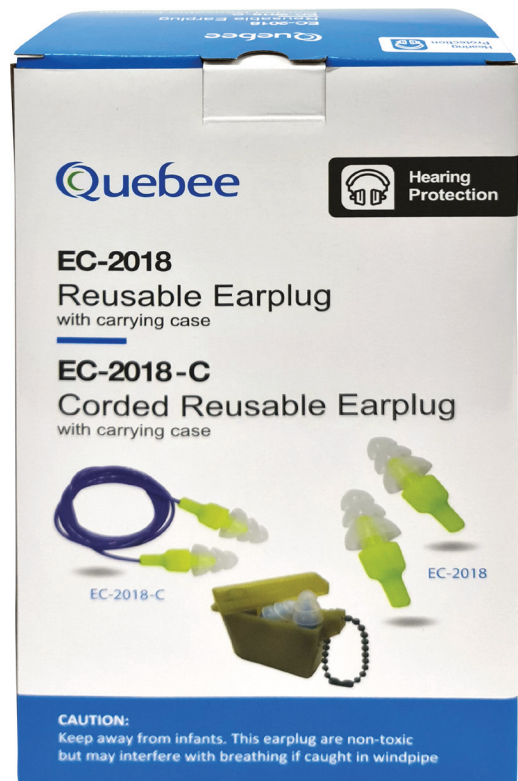
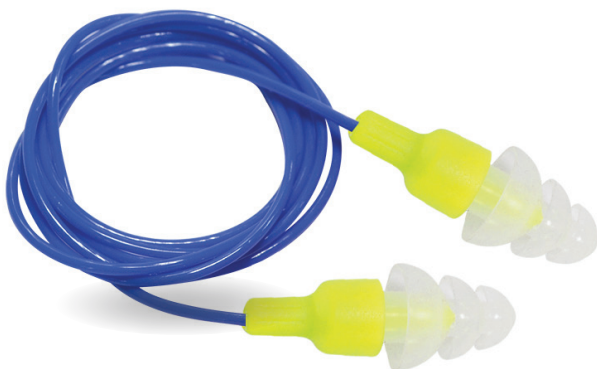
Tested according to EN352-2:2020 and ANSI S3.19-1974
Attenuation Data H-34dB M-30dB L-27dB

ANSI S3.19-1974

NRR 26dB

Frequency (HZ)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	30.8	27.7	30.8	34.7	36.9	37.1	44.0	33dB
Standard Deviation (dB)	3.8	4.1	4.3	3.2	3.5	4.3	4.5	
APV (dB)	27.1	23.6	26.5	31.5	33.4	32.8	39.5	

EC-2018A-C
Corded Reusable Earplug with carrying case



CAUTION:
Keep away from infants. This earplug are non-toxic but may interfere with breathing if caught in windpipe



Quebee Earplug

Quebee PU Foam Earplug offer SNR37dB and NRR33dB attenuation protection. The new tapered shape and premium memory PU ensure increased user comfort and protection.

Feature and Benefits

Comfortable

Soft PU foam material for low pressure inside the ear

Slow rebound rate allows fully attach to ear canal

Design to fit majority ear canal with premium comfort and protection

Convenient

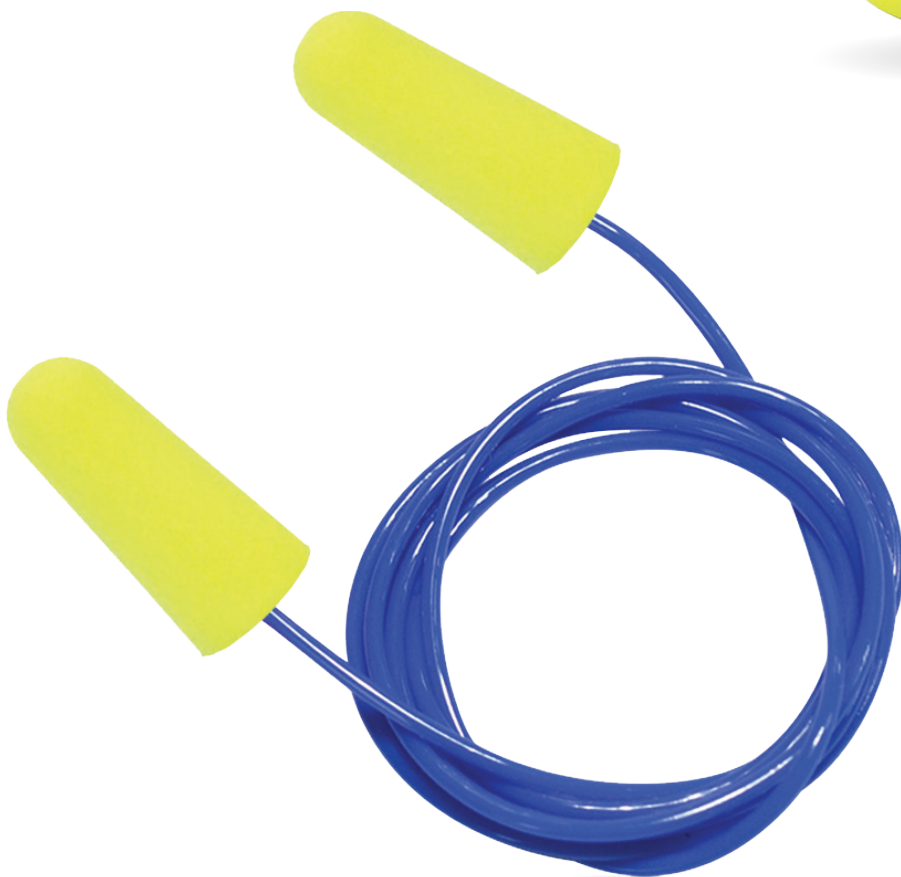
Bullet design fits most ear canal making the plugs easier to use

Tested according to EN352-2:2020

Attenuation Data H-37dB M-35dB L-30dB



EC-1003A
Earplug Uncorded



EC-1003A
Earplug Corded



ANSI S3.19-1974
NRR 33dB

Frequency (HZ)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	28.7	32.2	39.6	40.5	37.9	42.2	46.3	37dB
Standard Deviation (dB)	3.6	5.2	5.4	4.3	2.9	3.1	5.4	
APV (dB)	25.1	27.0	34.2	36.2	35.0	39.1	40.9	

HEARING PROTECTION

3M™ One Touch™ Pro Earplug Dispenser 3M-391-0000

- Accurately dispenses one earplug at a time
- Dispenses earplug directly into hand
- Durable ABS plastic for tough environments
- Free-standing or wall-mounted
- Shields earplugs from wind and rain
- Mounting holes designed to fit a variety of competitive dispensers



3M™ E-A-Rsoft™ Yellow Neons™ One Touch™ Refill Uncorded Earplugs, Hearing Conservation 3M-391-1004

- Refill container for One Touch™ dispenser. One gentle turn delivers uncorded foam earplugs
- No packaging waste with each pair
- NRR 33dB





audiOFF

Earmuff

Quebee Earmuff are designed to provide moderate to high level of attenuation that meets the needs of many industrial application where high levels of noise maybe encounters. When correctly worn, these products can help to reduce exposure to hazardous level of noise.

EM-5002B Headband & Foldable Earmuff



- Foldable Headband Earmuff with soft foam - filled cushions
- Lightweight ear cups
- Padded headband for extended comfort
- Provides a good seal with high noises reduction
- **Compliance:**
CE EN352-1:2020, SNR 33dB / H=35dB, M=32dB,
L=23dB / ANSI S3.19-1974, NRR 26dB

EM-5002C Neckband Earmuff



- Neckband Earmuff with soft foam - filled cushions
- Lightweight ear cups
- Provides a good seal with high noises reduction
- **Compliance:**
CE EN352-1:2020, SNR 31dB / H=33dB,
M=29dB, L=22dB

EM-5002D Helmet attachable Earmuff



- Helmet Attachable Earmuff with soft foam - filled cushions
- Lightweight ear cups
- Provides a good seal with high noises reduction
- **Compliance:**
CE EN352-3:2020, SNR 30dB / H=31dB,
M=28dB, L=21dB / ANSI S3.19-1974, NRR 22dB



EM-5002A
Headband Earmuff

- Headband Earmuff with soft foam - filled cushions
- Lightweight ear cups
- PU cover headband for extended comfort
- Provides a good seal with high noises reduction
- **Compliance:**
CE EN352-1:2020, SNR 34dB / H=36dB, M=32dB,
L=24dB / ANSI S3.19-1974, NRR 27dB

HEARING PROTECTION



Quebee Audioff earmuff is made from sound-attenuating material and soft ear cushion that provide a soft and firm fitting. The ABS hard outer cups are filled with foam and soft cushions around the rims that seal to the wearers head around the ear. The cups are connected and held together by a stainless steel spring band. Design comes with standard headband, foldable headband and helmet attachment.

QB Audioff Foldable Earmuff

QB-HY-EZ-8A

- Foldable earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-1
- SNR 25dB
- H=30dB, M=22dB, L=15dB



QB Audioff Headband Earmuff

QB-HY-EZ-8B

- Headband earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-1
- SNR 28dB
- H=31dB, M=26dB, L=18dB

QB Audioff Helmet Attachable Earmuff

QB-HY-EZ-8C

- Helmet attachable earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-3
- SNR 31dB
- H=36dB, M=28dB, L=21dB





3M™ Peltor™ Optime™ 95 Over-the-Head Earmuffs

3M-H6A/V

- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Lightweight with liquid/foam filled earmuff cushions
- NRR 21dB



3M™ Peltor™ Optime™ 95 Behind-the-Head Earmuffs

3M-H6B/V

- Multi-position designs, available in headband, neckband, helmet-attachable and folding models
- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid/foam filled earmuff cushions
- NRR 21dB

3M™ Peltor™ Optime™ 95 Over-the-Head Folding Earmuffs

3M-H6F/V

- Folding-cups fold up into the headband for compact storage
- Stainless steel construction resists bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 21dB



3M™ Peltor™ Optime™ 95 Cap-Mount Earmuffs

33M-H6P3E/V

- Universal mounting attachment fits most hard hats
- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 21dB

HEARING PROTECTION

3M™ Peltor™ Optime™ 101 Over-the-Head Earmuffs

3M-H7A

- Stainless steel headband distributes weight for low-pressure fit
- Ear cup pivot points that tilt for optimum comfort and efficiency
- Liquid / foam filled earmuff cushions
- NRR 27dB



3M™ Peltor™ Optime™ 101 Behind-the-Head Earmuffs

3M-H7B

- Neckband style
- Excellent Attenuation at low and high frequencies
- Enables safe working environment for longer periods of time, up to 101dBA
- Two low mounting points provide great comfort
- #1 Selling earmuff in the world
- NRR 26dB

3M™ Peltor™ Optime™ 101 Cap-Mount Earmuffs

3M-H7P3E

- Cap-mounted design allows for easy use with most hard hats
- Liquid / foam filled ear cushions
- NRR 24dB





3M™ Peltor™ Optime™ 98 Over the Head Earmuffs

3M-H9A

- For noise levels up to 98 dBA
- Stainless steel construction resists bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam earmuff cushions
- NRR 25dB



3M™ Peltor™ Optime™ 98 Cap-Mount Earmuffs

3M-H9P3E

- For noise levels up to 98 dBA
- Universal mounting attachment fits most hard hats
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 23dB

HEARING PROTECTION

3M™ Peltor™ Optime™ 105 Over the Head Earmuff [3M-H10A](#)

- For noise levels up to 105 dBA
- Proprietary Twin-Cup™ design has soft, foam-filled earmuff
- Stainless steel headband distributes weight for low-pressure fit
- Ear cup pivot points that tilt for optimum comfort and efficiency
- Liquid / foam filled earmuff cushions
- NRR 30dB



3M™ Peltor™ Optime™ 105 Behind-the-Head Earmuffs [3M-H10B](#)

- Patented Twin-Cup™ design has soft, foam-filled earmuffs cushions
- Behind the head design allows for easy use with hard hats
- Liquid / foam filled earmuff cushions
- NRR 29dB

3M™ Peltor™ Optime™ 105 Cap-Mount Earmuffs [3M-H10P3E](#)

- For noise levels up to 105 dBA
- Proprietary Twin-Cup™ design has soft, foam-filled earmuff
- Ear cup pivot points that tilt for optimum comfort and efficiency
- Easy cap-mount design
- Liquid / foam filled earmuffs cushions
- NRR 27dB



Accessories

3M™ Peltor™ Earmuff Replacement Hygiene

[3M-HY3](#), [3M-HY7](#), [3M-HY10](#)

- Extend the life of earmuffs with 1 pair of replacement cushions and 1 pair of dampers
- Hygiene kit for H6, H7, H9 & H10 series





3M™ Peltor™ X1 earmuffs

Standard attenuation, slim design

NRR 22 dB

- » Electrically insulated (dielectric) wire headband on model X1A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight, low-profile earcups for improved compatibility with other personal protective equipment (PPE)

Earcup Options



Electrically Insulated

A Models

P5E Models



Hard Hat-Attached

P3E Models



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		

3M™ Peltor™ X2 earmuffs

Medium attenuation, slim design

NRR 24dB

- » Electrically insulated (dielectric) wire headband on model X2A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight, low-profile earmuffs are ideal for a variety of noisy applications

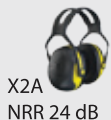
Earcup Options



Electrically Insulated

A Models

P5E Models



Hard Hat-Attached

P3E Models



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
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		

HEARING PROTECTION

3M™ Peltor™ X3 earmuffs

High attenuation, low weight

NRR 28 dB

- » Electrically insulated (dielectric) wire headband on model X3A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance

- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight earmuffs designed for moderate to high noise exposure applications
- » Newly-designed spacer improves attenuation without a double cup design excess bulk or weight

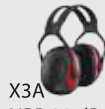
Earcup Options



X3
High protection earmuffs for moderate - high noise environments

Electrically Insulated

A Models P5E Models



X3A
NRR 28 dB



X3P5E
NRR 25 dB

Hard Hat-Attached

P3E Models



X3P3E
NRR 25 dB



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
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		

Extremely slim, high performance

3M™ Peltor™ X4 earmuffs

NRR 27 dB

- » Electrically insulated (dielectric) wire headband on model X4A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage

- » Lightweight earmuff recommended for moderate to high-noise exposure applications
- » Low-profile cup design for improved compatibility with other personal protective equipment (PPE)
- » Newly-designed spacer improves attenuation without excess bulk or weight

Earcup Options



X4
High protection earmuffs for moderate - high noise environments

Electrically Insulated

A Models P5E Models



X4A
NRR 27 dB



X4P5E
NRR 25 dB

Hard Hat-Attached

P3E Models



X4P3E
NRR 25 dB



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
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		



3M™ Peltor™ X5 earmuffs

Unparalleled attenuation without the need for double protection involving ear muffs and ear plugs.

NRR 31 dB

- » Electrically insulated (dielectric) wire headband on model X5A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Very high attenuation earmuffs recommended for high-noise exposure applications
- » Despite larger earcups, product is lightweight with excellent balance and comfort
- » Newly-designed spacer improves attenuation without excess bulk or weight
- » NRR 31 dB † highest of any earmuff on the market

Earcup Options	Electrically Insulated	Hard Hat-Attached
	A Models PSE Models	PSE Models
		
X5 High protection earmuffs for high noise environments	X5A NRR 31 dB	X5P5E NRR 31 dB
		
		X5P3E NRR 31 dB



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
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		

3M™ PELTOR's highest levels of Comfort, Durability and Protection

3M™ Peltor™ X Series – A new Standard DESIGN, COMFORT and ATTENUATION TECHNIQUES. 3M developed the new 3M™ Peltor™ X Series ear muffs based on these three pillars. In the addition to simplicity of use and ease of identification the new range ear muffs are now the new reference point in terms of over-the-ear protection.



3M™ Peltor™ Optime: A market reference
3M™ PELTOR's highest levels of Comfort, Durability and Protection

3M Hearing Protection Solutions made innovately easy