

3M Occupational Health & Environmental Safety Division
Catalogue for Hearing Protection Products



Introduction

Take your safety personally



3M, the world's leader in safety and protective equipment, is proud to have the Peltor™ and E-A-R™ Brand range as part of its product offering.

3M™, Peltor™ and E-A-R™ Hearing Protection for noisy and hazardous environments are renowned world leaders. With more than 50 years of experience, the Peltor™ and E-A-R™ together with the 3M Branded hearing portfolio promises superior quality products that provide an optimal balance of comfort and protection.

It is our goal to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. With our global technology, manufacturing and knowledge network we do more than simply develop products that help your workforce to operate in safety and comfort. The advanced engineering and technology inherent with the 3M™, Peltor™ and E-A-R™ Brands fit with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.



Protection all the way

Our mission is to help protect people at work, at home, for life. We believe that health and safety is the priority in any working environment and that greater comfort improves worker protection, resulting in enhanced productivity and safety compliance. In addition to protecting people, our ambition is to protect the environment as well. It is, therefore, our declared goal to develop and use safe products that have the least possible impact on people, the environment and the workplace.

Long lasting innovations

To deliver on our commitment requires a culture of accountability, customer inspired innovation, knowledge and expertise, fuelled by a deep understanding of our customer needs. The 3M™, Peltor™ and E-A-R™ Brands, trusted as leaders in hearing protection, together with the 3M Brand offer a comprehensive line of earplugs, banded earplugs and earmuffs. The products provide optimal fit capability with other personal protection equipment.

Working together

3M is more than just products. We work closely with distributors, safety professionals and companies to protect employees exposed to hazardous environments. With offices around the world, 3M can help our customers succeed everywhere.

Partnership in safety

Many renowned companies have chosen Peltor™ Products for optimum safety at work. With customised printing, embossing and other solutions, our products can also help enhance the value of your brand.

Contents



Contents: Product by attenuation



GREEN Optime™ ALERT SYSTEM

RNR* < 85dB(A)

Hearing protection is not compulsory but is made available to workers for their comfort and protection



YELLOW Optime™ ALERT SYSTEM

83 dB(A) - 93 dB(A)

You are above the level, hearing protection is compulsory.



RED 1 Optime™ ALERT

87 dB(A) - 98 dB(A)

You are above the level, hearing protection is compulsory. Ideal for high frequency noise.



RED 2 Optime™ ALERT SYSTEM

94dB - 105dB(A)

You are above the level, hearing protection is compulsory. Ideal for high and medium frequency noise.



RED 3 Optime™ ALERT SYSTEM

95 dB(A) - 110 dB(A)

You are above the level, hearing protection is compulsory. Ideal for all frequencies.

PLEASE NOTE:

At levels above 95dB(A) you will need an accurate noise assessment to correctly select the product. Green and Yellow marked products are not suitable for use in low frequency noise.

(*RNR = Recommended Noise Rating)

22	E-A-R™ Ultrafit™ 14 Earplugs - SNR 14dB
28	E-A-R™ E-A-Rflex™ 14 Earplugs - SNR 14dB
10	E-A-R™ E-A-Rsoft™ 21 Earplugs - SNR 21dB
22	E-A-R™ Ultrafit™ 20 Earplugs - SNR 20dB
23	E-A-R™ ClearE-A-R™ 20 Earplugs - SNR 20dB
	E-A-R™ Tracer™ 20 Earplugs - SNR 20dB
24	E-A-R™ Ultratech™ Earplugs - SNR 21dB
28	E-A-R™ E-A-Rflex™ 20 Earplugs - SNR 20dB
29	E-A-R™ E-A-Rband™ Earplugs - SNR 21dB
	E-A-R™ Caboflex™ Earplugs - SNR 21dB
10	E-A-R™ Classic™ Earplugs - SNR 28dB
18	E-A-R™ Express™ Earplugs - SNR 28dB
24	3M™ 1261/1271 Earplugs - SNR 25dB
30	E-A-R™ E-A-Rcaps™ Earplugs - SNR 23dB
	E-A-R™ Flexicap™ Earplugs - SNR 23dB
31	3M™ Pulsar™ Earplugs - SNR 23dB
	E-A-R™ Reflex™ Earplugs - SNR 26dB
32	3M™ 1310 Earplugs - SNR 26dB
34	Ultra™ 9000 Earmuffs - SNR 22dB
	E-A-R™ Model 5000™ Earmuffs - SNR 27dB
35	Peltor™ Optime™ I Earmuff - SNR 26/27/28dB (depending on the version)
36	Peltor™ Bulls'eye™ I Earmuff - SNR 27dB
37	Peltor™ H 31 Earmuff - SNR 27/28 dB (depending on the version)
11	E-A-R™ Classic™ Corded Earplugs - SNR 29dB
18	E-A-R™ Pro-Seals™ Earplugs - SNR 29dB
19	3M™ Torque™ Earplugs - SNR 32dB
25	E-A-R™ Tri-Flange™ Earplugs - SNR 29dB
	E-A-R™ Tracers™ Earplugs - SNR 32dB
26	E-A-R™ Ultrafit™ Earplugs - SNR 32dB
38	Peltor™ Optime™ II Earmuff - SNR 30/31dB (depending on the version)
39	Peltor™ Push to Listen™ Earmuff - SNR 29/31dB (depending on the version)
40	Peltor™ Bulls'eye™ II Earmuff - SNR 31dB
11	E-A-R™ Classic™ Soft Earplugs - SNR 36dB
12	E-A-R™ Superfit™ 33 Earplugs - SNR 33dB
	E-A-R™ Superfit™ 36 Earplugs - SNR 36dB
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13	E-A-R™ E-A-Rsoft™ Neons Earplugs - SNR 36dB
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15	3M™ 1100/1110 Earplugs - SNR 37dB
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19	3M™ No-touch™ Earplugs - SNR 35dB
20	E-A-R™ Push-ins™ Earplugs - SNR 38dB
26	E-A-R™ Ultrafit™ X Earplugs - SNR 35dB
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12	E-A-R™ Superfit™ 33/36 Earplugs - 3M™ 1120/1130 Earplugs
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3M™ Pod earplugs

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20	E-A-R™ Push-Ins™ Earplugs

3M™ Pre moulded earplugs

22	E-A-R™ Ultrafit™ 14 Earplugs - Ultrafit™ 20 Earplugs
23	E-A-R™ ClearE-A-R™ 20 Earplugs - Tracers™ 20 Earplugs
24	E-A-R™ Ultratech™ Earplugs - 3M™ 1261/1271 Earplugs
25	E-A-R™ Tri-Flange™ Earplugs - Tracers™ Earplugs
26	E-A-R™ Ultrafit™ Earplugs - Ultrafit™ X Earplugs

3M™ Banded earplugs

28	E-A-R™ E-A-Rflex™ 14 Earplugs - E-A-Rflex™ 20 Earplugs
29	E-A-R™ E-A-Rband™ Earplugs - Caboflex™ Earplugs
30	E-A-R™ E-A-Rcaps™ Earplugs - Flexicap™ Earplugs
31	3M™ Pulsar™ Earplugs - E-A-R™ Reflex™ Earplugs
32	3M™ 1310 Earplugs

3M™ Earmuffs

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EC Noise Legislation

Old Regulations Vs New Regulations Comparison Chart

Old Regulations	dB(A)	New Regulations
Peak Action Level	→ 140	Peak level at Limit Value
	- 137	Peak level at Upper Exposure Action Value
	- 135	Peak level at Lower Exposure Action Value
Second Action Level HPE must be provided by employer & the use of HPE strictly enforced at or above the Second Action Level	→ 90	
	- 87	New Limit Value at ear, Can be achieved with HP
First Action Level HPE must be made available to employees if noise levels exceed the First Action Level.	→ 85	Upper Exposure Action Value HPE must be used where sound level exceeds the Higher Action Value.
	- 80	Lower Exposure Action Value HPE must be provided to individual workers when Action Value is exceeded.

Under The Control of Noise at Work Regulations 2005 noise legislation employers must provide suitable hearing protection where noise exceeds 80dB(A), all EU member states should have complied with the new directive as of February 2006.

Continued exposure to noise above 80dB(A) may cause permanent hearing damage. Many employees not affected under previous legislation will now have to be considered. For example people working in light industry, utility workers, bar staff and public service employees may now be exposed and must be provided with adequate protection.



Choosing the correct hearing protection for your needs can be difficult; the hearing protectors should neither over nor under protect the user. With this in mind 3M has an easy to use selection system for E-A-R™ and Peltor™ products that aids the correct selection of hearing protection appropriate to the noise level.

Our system uses a simple, logically coloured classification to make the selection process easy. It has its roots in the highly appreciated marking used on the Peltor™ Optime™ range. The difference is that it is wider, i.e. covering more noise situations.

Step by step guide to using the Optime™ Alert System and Sound Check Meter

1.

Measure the noise level

There are several ways of doing this: you may already know what your noise level is, you could get a detailed noise assessment or use the Optime™ Alert System - Sound Check to establish your noise band.

Alternatively you could use the Sound Check. Simply deploy the meter at the employees work station and let it sit until the coloured display has stabilised, this then indicates the average noise level in that area.



Above 95dB(A)

You will need to get a more accurate noise assessment.



Above 87dB(A)

Products marked with this icon are suitable at this noise level.



Between 87 - 93dB(A)

Products marked with these icons are suitable at this noise level.



Between 83 - 93dB(A)

Products marked with this icon are suitable at this noise level.



Between 83 - 85dB(A)

Products marked with these icons are suitable at this noise level.



Between 80 - 85dB(A)

Products marked with this icon are suitable at this noise level.



Optime™ Alert System



Our system uses a simple, logically coloured classification to make the selection process easy. Firstly find out what your noise level is, then look at the icons below and establish which noise band (RNR) your noise level falls into. Take note of the icon and choose from the wide range of products featuring the correct icon.

PLEASE NOTE:

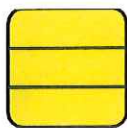
At levels above 95dB you will need an accurate noise assessment to correctly select the product. Green and Yellow marked products are not suitable for use in low frequency noise.

*RNR = Recommended Noise Rating



RNR* < 85dB(A)

You do not have to wear hearing protection, but make it available to your workers.



83 dB(A) - 93 dB(A)

You are above the permitted exposure level, hearing protection is compulsory.



87 dB(A) - 98 dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for high frequency noise.



94dB(A) - 105dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for high and medium frequency noise.



95 dB(A) - 110 dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for all frequencies.

Sound Check Meter

3M also has a simple sound level indicator for its E-A-R™ and Peltor™ products that complements the Optime™ Alert System by establishing which colour code you need to follow. You simply deploy the meter at the employees work station let it run until the display has stabilised, this then indicates the average noise level in that area and the type of protection suggested.

The display indicates the period of time the unit has been active in 1 hour increments up to a maximum of an 8 hour working day. The Sound Check meter must be restarted between measurements.

Supplied with

UK Power Supply
Euro Power Supply
Optional hard case

Product Code

Optime™-sound-metuk
Optime™-sound-meter
Optime™-sound-case

Hard Storage / Carry Case

This strong, lockable rigid case provides a high level of protection for your Sound Check Meter. The meter is held securely in place by high density foam for protection against impact and vibration. Integral to the lid of the case is a document holder to store records, posters or other documentation.



2.

Identifying the corresponding icon

Using the Sound Check Method

If you are using the Sound Check Meter all you have to do is match up the coloured display with the chart opposite. On the left of the chart it identifies which icon should be exhibited on the hearing protection.

Using your own noise level measurement

If you are using your own measurement or a measurement taken by another competent person then you simply look at the Optime™ Alert System above and identify which RNR - Recommended Noise Rating - your level falls under and record the icon above.

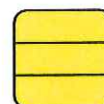
3.

Choosing hearing protection

By now you will know which icon on the Optime Alert System relates to your noise level, simply check the icon next to the related product.



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E-A-Rfit™ System

E-A-Rfit™

Wearers' ear canal shapes are different hence fitting methods are different, resulting in different protection levels. To help you understand the individual protection needs of each wearer, use the new E-A-R™ Validation System by 3M.



Innovative F-mire process is quick simple and accurate

Unlike conventional tone response tests, E-A-Rfit™ system is an F-MIRE (field-microphone-in-real-ear) test. Key features to this innovative system are:

- **Exclusive Probed E-A-R™ Hearing Protectors**
Including a selection of foam and pre-moulded products (see bottom of page).
- **Dual Element Microphone**
Measures sound inside and outside the ear.
- **Advanced Algorithm**
Utilises transfer function measurement approach to acquire reliable data in less than eight seconds.
- **Proprietary Application Software**
Provides enhanced metrics for guidance in the application of the measured insertion loss values.



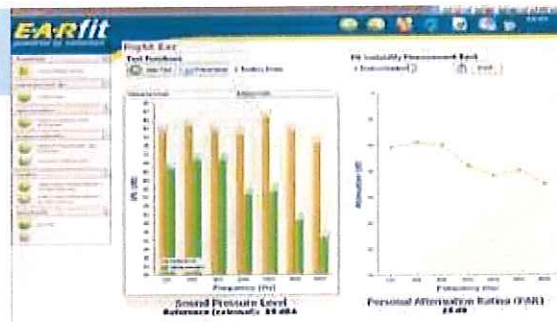
Real Fit = Real Results

The subject fits their own protector for actual on the job readings. The technician then connects the microphone to the hearing protector's tube, leaving the other microphone exposed so that noise levels are measured inside and outside the ear.



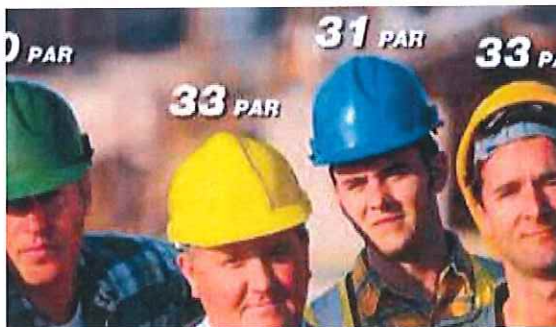
Personal Attenuation Rating (PAR) For Each Worker In Minutes

It only takes eight seconds to obtain data at seven standard (125Hz to 8000Hz) frequencies. You'll know the level of protection each worker receives from each tested protector.



Data Is Documented For Future Reference

Each worker's personal attenuation rating (PAR) results will be automatically documented and stored by the technician. This information is valuable for comparison during subsequent tests and prove useful if later called upon to provide it. A copy of the results will also be provided to your company's Hearing Conservation Manager.



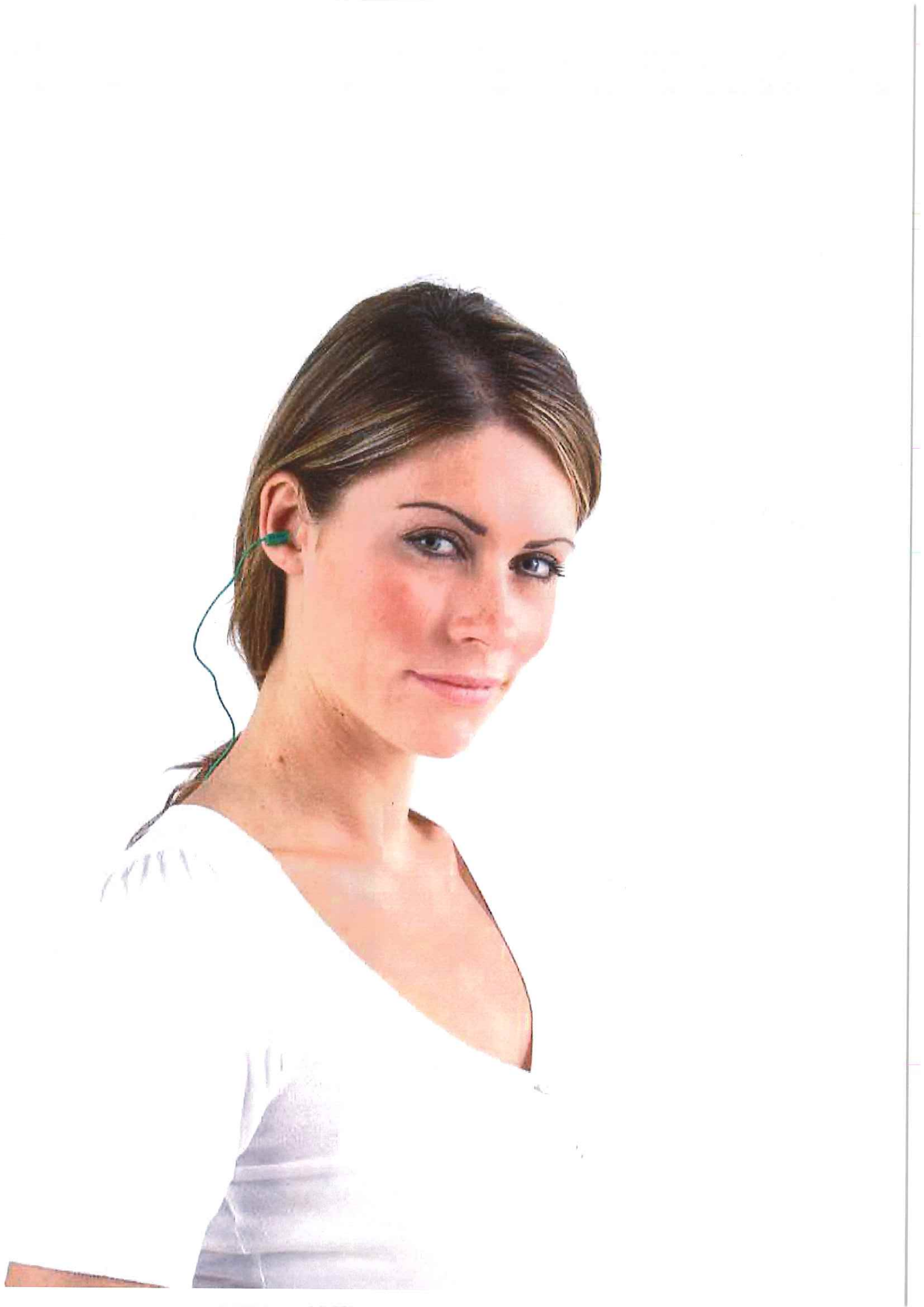
Test Compatible With A Variety of E-A-R™ Hearing Protectors

Protection levels can be validated with many different E-A-R™ Hearing Protectors. This selection includes specially-probed versions of foam and premoulded earplugs.



E-A-Rfit™ compatible Earplugs







Roll Down Earplugs

Roll down earplugs, made from expandable slow-recovery foam, provide the best combination of comfort and protection for most users. Once in the ear, foam plugs expand to provide a snug and secure custom fit. 3M provide a wide range of disposable roll down PU earplugs to choose from to help you find the best solution for your individual needs.

3M™ Roll Down Earplugs

E-A-R™ E-A-Rsoft™ 21 Earplugs



For noise levels up to 93dB(A) the E-A-Rsoft™ 21 Earplug is the ideal disposable hearing protector. It provides the correct hearing protection level whilst being easy to use. It simply pushes into the ear canal, requiring no roll down and helps ensure a correct fit.



Available with cord	X
Moisture Resistant	X
Reusable	X
Metal Detectable	X
Slow recovery foam	✓
No roll down required	✓

Product	Product code
E-A-Rsoft 21	ES-01-009

E-A-R™ Classic™ Earplugs

E-A-R™ Classic Earplugs are made from a soft energy absorbing polymer foam which provides excellent hearing protection and all day comfort. Ideal for use where noise is a problem, either in work or leisure activities.

E-A-R™ Classic Small Earplugs are also available for users who are looking for all the benefits of the standard size but who want greater comfort in smaller ear canals.



Available with cord



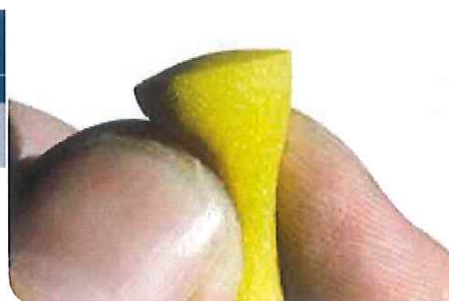
Available with cord	✓
Moisture Resistant	✓
Compatible with other PPE	✓
Reusable	✓
Metal Detectable	X
Slow recovery foam	✓
No roll down required	X

Product	Product codes
Pillow Pack	PP-01-002
5 Pair	FP-01-000
One Touch Refill	PD-01-001
One Touch Top Up	PD-01-009
Classic Small	AM-01-000

Full attenuation data available on page 48

E-A-R™ Classic™ Corded Earplugs

E-A-R™ Classic Corded Earplugs offer all the benefits of the E-A-R™ Classic Earplug, with the addition of an easy-to-see blue vinyl cord.



Available with cord	✓
Moisture Resistant	✓
Compatible with other PPE	✓
Reusable	✓
Metal Detectable	x
Slow recovery foam	✓
No roll down required	x

Product
Classic Corded

Product code
CC-01-000

E-A-R™ Classic™ Soft™ Earplugs

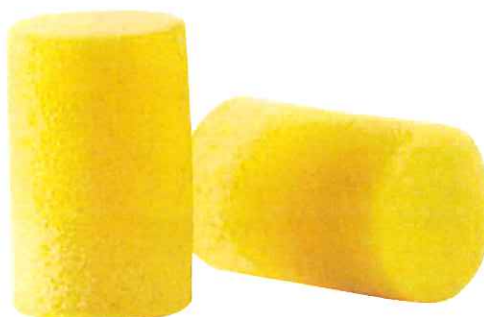
As the foam warms to the body temperature, it becomes softer and shapes to the individual's ear canal. This 'shaping' allows the earplugs to form an excellent seal against noise, and as time goes on, the foam continues to soften for added comfort.



Available with cord



Available with cord	✓
Moisture Resistant	✓
Compatible with other PPE	✓
Reusable	✓
Metal Detectable	x
Slow recovery foam	✓
No roll down required	x



Product
Pillow Pack
Uncorded Polybag
Corded
5 Pair
One Touch Refill

Product codes
PP-01-800
PR-01-004
PR-01-005
FP-01-800
PD-01-800

3M™ Roll Down Earplugs

E-A-R™ Superfit™ Earplugs

E-A-R™ SuperFit™ Earplugs are the only earplug with the unique 'fitting ring' to which identifies when the earplug is correctly fitted. When no orange colour is visible, the best fit is achieved. E-A-R™ SuperFit™ 36 Earplug is ideal for those looking for higher attenuation. E-A-R™ Superfit™ 33 Earplug is smaller in diameter and height to fit smaller ear canals, or those looking for slightly lower attenuation.

Available with cord	✗
Moisture Resistant	✓
Compatible with other PPE	✓
Reusable	✓
Metal Detectable	✗
Slow recovery foam	✓
No roll down required	✗



Superfit 33 Earplug

Product	Product codes
Pillow Pack	SF-01-000
One Touch Refill	PD-01-007

Superfit 36 Earplug

Product	Product code
Superfit 36	SF-01-003

3M™ 1120 / 1130 Earplugs

A unique articulated shape for optimum fit, particularly useful for short or narrow ear canals. The soft hypoallergenic foam material provides maximum comfort and low pressure inside the ear. Its special formulation material makes these plugs less prone to soak up water in humid environments to maintain performance. The smooth surface helps prevent picking up unwanted dirt for a more hygienic fit.

The soft braided cord (1130 only) helps to remove plugs after use and prevent their loss.

Available with cord	✓
Moisture Resistant	✗
Compatible with other PPE	✓
Reusable	✗
Metal Detectable	✗
Slow recovery foam	✓
No roll down required	✗



Product	Product codes
Uncorded	1120
Corded	1130
Refill Bag	1120R



E-A-R™ E-A-RSoft™ Yellow Neons Earplugs

E-A-R™ E-A-RSoft™ Earplugs are made from a slow expanding, polyurethane foam material. A plug that gives evenly distributed pressure allowing flexibility and a good seal with optimum comfort. E-A-R™ E-A-RSoft™ Yellow Neons Earplugs are also available with a blue vinyl connecting cord.



Available with cord



Available with cord	✓
Moisture Resistant	✗
Compatible with other PPE	✓
Reusable	✗
Metal Detectable	✗
Slow recovery foam	✓
No roll down required	✗

Product

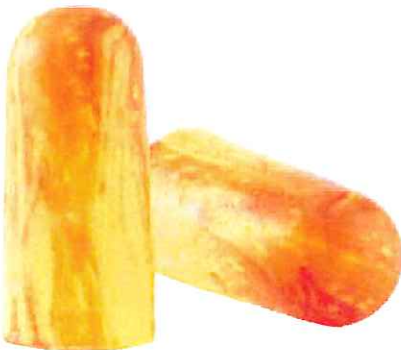
Uncorded
Corded
One Touch Refill
One Touch Top Up

Product codes

ES-01-001
ES-01-005
PD-01-002
PD-01-010

E-A-R™ E-A-RSoft™ Blasts Earplugs

E-A-R™ E-A-RSoft™ Blasts Earplugs are made from a slow expanding, polyurethane foam material. A plug that provides evenly distributed pressure, giving flexibility, a good seal with optimum comfort.



Available with cord	✓
Moisture Resistant	✗
Compatible with other PPE	✓
Reusable	✗
Metal Detectable	✗
Slow recovery foam	✓
No roll down required	✗

Product

Uncorded
One Touch Refill
One Touch Top Up

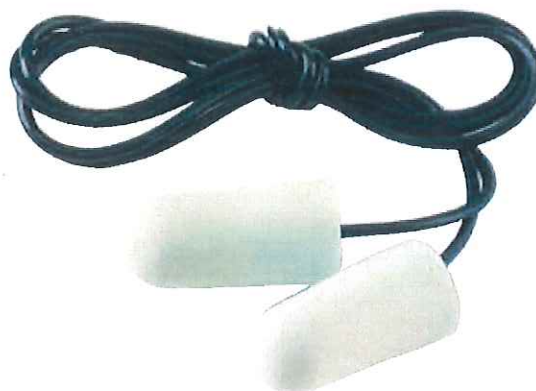
Product codes

ES-01-003
PD-01-003
PD-01-012

3M™ Roll Down Earplugs

E-A-R™ E-A-RSoft™ Metal Detectable Earplugs

The E-A-R™ E-A-RSoft™ Metal Detectable Earplug has all the advantages of the E-A-R™ E-A-RSoft™ Earplug with the added benefits of a blue metal detectable cord and an integral stainless steel ball in the non-food blue earplug. Ideal for use in the food manufacturing industries.



Available with cord	✓
Moisture Resistant	x
Compatible with other PPE	✓
Reusable	x
Metal Detectable	✓
Slow recovery foam	✓
No roll down required	x

Product	Product code
Corded	ES-01-011A

3M™ Solar™ Earplugs

3M™ Solar™ Earplugs come in a choice of eye-catching colours: orange, red, pink, and purple earplugs in one convenient dispenser box. Ultra-soft foam formulation for comfortable all-day wear, plus a tapered shape for easy insertion and excellent canal-hugging seal. Available with or without 'LiveWire' cord.



Available with cord	✓
Moisture Resistant	x
Compatible with other PPE	✓
Reusable	x
Metal Detectable	x
Slow recovery foam	✓
No roll down required	x



Product	Product codes
Uncorded	PN-01-001
Corded	PN-01-002
One Touch Refill	PN-01-011



3M™ 1100 / 1110 Earplugs

The Soft hypoallergenic foam material provides maximum comfort and low pressure inside the ear. Its smooth, dirt resistant surface provides better hygiene, durability and comfort. The tapered design fits most ear canals and makes the plugs easier to use. A polyester cord (1110) helps to remove the plugs after use and to prevent their loss.



**37dB
SNR**



Available with cord	✓
Moisture Resistant	x
Compatible with other PPE	✓
Reusable	x
Metal Detectable	x
Slow recovery foam	✓
No roll down required	x

Product	Product codes
Uncorded	1100
Corded	1110
Refill Bag	1100R

E-A-R™ E-A-RSoft™ FX Earplugs

The E-A-R™ E-A-RSoft™ FX Earplug is the highest protecting earplug in our range today (SNR 39). Its smooth tapered finish makes fitting easier and helps form a comfortable fit. The flange shape, when rolled down, serves as a very effective insertion device. This makes the earplug very easy to fit.



**39dB
SNR**

Available with cord



Available with cord	✓
Moisture Resistant	x
Compatible with other PPE	✓
Reusable	x
Metal Detectable	x
Slow recovery foam	✓
No roll down required	x

Product	Product codes
Uncorded	ES-01-020
Corded	ES-01-021

3M™

Dispensers



One-Touch™ Dispenser

You can now buy many of the E-A-R™ Disposable Earplugs in refills for the innovative One-Touch™ Dispenser. Easy to use with a simple twist motion, the innovative 'no waste funnel' ensures plugs drop directly into the palm, dispensing E-A-R™ Disposable Earplugs every time.

Unobstructed access from front or either side permits one hand operation by a clockwise or anticlockwise motion.

Most of E-A-R™ Disposable Earplugs are available in both refills and top up boxes.



EAR

Product code
PD-01-000

Refill Bottles



E-A-R™ Classic Ear Plugs



E-A-R™ E-A-Rsoft Neons Ear Plugs



E-A-R™ E-A-Rsoft Blasts Ear Plugs



E-A-R™ Superfit 33 Ear Plugs



E-A-R™ Classic Soft Ear Plugs



E-A-R™ Peltor Next Solar Ear Plugs

Top Up Box



3M™ Earplug Dispenser

3M™ 1100DP Dispenser:
your dispenser for 1100 plugs

3M™ 1120DP Dispenser:
your dispenser for 1120 plugs

Packed together with 1000 pairs

Catch tray included to help keep ear plugs off the floor

Low cost plastic refill bags available



E-A-R™ Wall Mounted Dispenser Holder

A permanent E-A-R™ Earplug Dispenser, serving as a reminder to wear hearing protection and make E-A-R™ Earplugs readily available in noisy areas for full time users and visitors alike. This plastic dispenser is easy to fix to a wall or other permanent position. Holds 250 pair dispenser of E-A-R™ Classic™ Pillow Packs.



EAR

Product code
PD-01-002