

**CE** All Bilsom and Howard Leight hearing protectors are CE-certified and have been tested in accordance with the relevant EN352 standards.



From our beginnings as a one-man operation more than 30 years ago, Howard Leight Industries has grown into one of the largest manufacturers of in-ear hearing protection in the industrial market and the recognized innovator in protection and fit. Since 2001, we've been part of the BACOU-DALLOZ group, a world leader in personal protective equipment.

## Bilsom®

Founded in Sweden in 1968, Bilsom leads the industry in developing innovative sound management technologies and products that are used in some of the most challenging environments in the world. Bilsom is a part of the BACOU-DALLOZ group, a world leader in personal protective equipment.

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**Tel. +44 1256 693200 Fax +44 1256 693300 uksales@bacou-dalloz.com**

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**HEARING** protection



Bacou-Dalloz is the world leader in personal protective equipment (PPE). The group takes advantage of this position to constantly innovate and develop total solutions for the protection of people in the workplace or in risky situations.

With its two complementary product lines (earplugs and earmuffs), Bacou-Dalloz can cover all noise-related hazards. At the cutting edge of research and development, the solutions offered by the Group guarantee optimal protection and exceptional user comfort.



HOWARD  
LEIGHT

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Howard Leight leads the industry by offering the most choices of in-ear hearing protection. Our complete line of Disposable, Reusable, Detectable and Banded Earplugs includes options for material, shape, size and SNR (Single Number Rating) that provide a unique Comfort Profile for every user, every environment. As the innovation leader, only Howard Leight is continually developing new designs, materials and technologies that take comfort and protection to the next level.



**Bilsom**

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For more than 30 years, Bilsom has built a legacy of engineering excellence. Our innovative hearing protection devices are tested to the limit every day in some of the most challenging environments in the world. We continue the Bilsom legacy today by introducing many new and technologically advanced earmuffs.

Whether you need to protect workers from long-term exposure to harmful noise or facilitate communication among co-workers in hazardous environments, Bilsom has the expertise to deliver innovative and reliable solutions for hearing protection and sound management.



## It's all about choice.

Selecting the right protection for your workers means more than choosing the earplug with the highest SNR. A better way to ensure that hearing protection is used consistently and properly is to select earplugs by Comfort Profile.

That means considering all the features that make one earplug work and fit differently than another: material, shape, size and SNR. Howard Leight makes it easy to compare products and ensures that all your workers receive the right fit and protection.

### Find It Fast

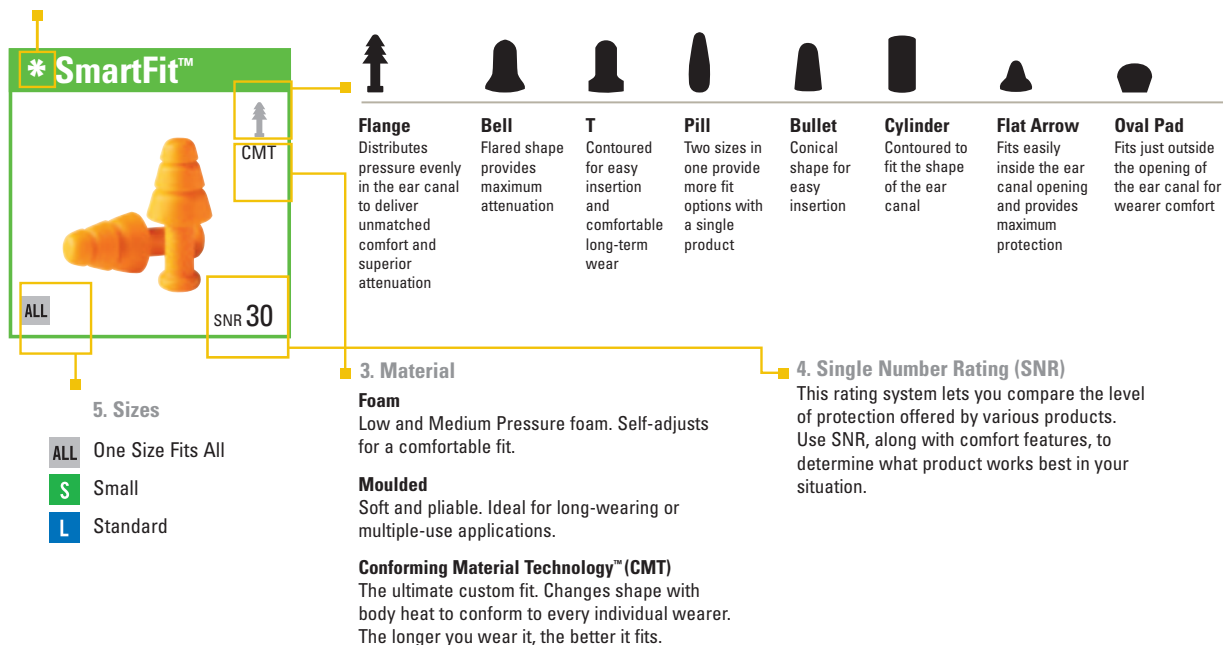
Need to compare products or find a specific feature? Our FastSpecs make it easy.

#### 1. New Designs

Look to these products for the latest innovations in performance and comfort.

#### 2. Shape

Because every ear is different, Howard Leight earplugs are available in a range of shapes.





# Disposable Earplugs

Disposable shouldn't mean single choice. Howard Leight offers a comprehensive choice of disposable products that include the comfort features your employees deserve, plus the highest SNR available.

An economic and convenient choice for work situations that demand a high degree of comfort, frequent changes or where hygiene presents a problem for reuse.

All disposable uncorded plugs delivered:  
**200 pair-box, 2000 pair-case**  
All disposable corded plugs delivered:  
**100 pair-box, 1000 pair-case**  
(Except Bilsom 303)

## Max<sup>®</sup>



### High SNR & great comfort

- Improved design easier to insert, counters tendency to back out of the ear
- The world's most-used polyurethane earplug
- Bell shape delivers maximum in-ear comfort
- Smooth, soil-resistant skin prevents dirt buildup

Max uncorded : **33 011 61**  
Max corded : **33 011 30**

## Max Lite<sup>®</sup>

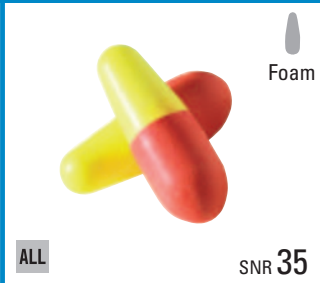


### Comfort for smaller wearers

- Ideal size for female workers
- Low pressure foam expands gently for comfortable long-term wear
- Contoured T-shape for easy handling and wear

Max Lite uncorded : **33 011 20**  
Max Lite corded : **33 011 21**

## MultiMax<sup>®</sup>



### Two sizes in one product

- Improves individual fit, while simplifying inventory
- Smooth, soil-resistant skin prevents dirt buildup
- Self-adjusting foam expands to fit virtually every wearer

MultiMax uncorded : **33 011 09**

## Laser Lite<sup>®</sup>



### The bright idea in protection

- Vibrant colours make protection visible – and fun
- Self-adjusting foam expands to fit virtually every wearer
- Contoured T-shape for easy insertion and wear

Laser Lite uncorded : **33 011 05**  
Laser Lite corded : **33 011 06**

**\* Matrix™**



Foam

ALL SNR 29

**\* Matrix™**



Foam

ALL SNR 27

**\* Matrix™**



Foam

ALL SNR 23

**New no-roll foam**

- Patented no-roll design makes insertion easy
- Smooth outer skin and **resilient** diameter provide long-term comfort
- Delivers instant protection upon proper insertion - no need to wait for foam to expand
- Three attenuation levels for targeted attenuation (Orange SNR 29, Green SNR 27, Blue SNR 23)

Matrix Orange uncorded : **10 112 36**  
 Matrix Green uncorded : **10 112 37**  
 Matrix Blue uncorded : **10 112 38**  
 Matrix Orange corded : **10 125 21**  
 Matrix Green corded : **10 125 20**  
 Matrix Blue Corded : **10 127 20**

**Bilsom 303**



Foam

S L SNR 33

**Conical shape for easy insertion**

- Polyurethane foam plug available in 2 sizes to ensure a proper and comfortable fit
- Smooth outer surface for better hygiene
- PVC-free

Bilsom 303 Large : **10 050 73** (1 pair-pouch, 200 pair-box, 2000 pair-case)  
 Bilsom 303 Small : **10 050 74** (1 pair-pouch, 200 pair-box, 2000 pair-case)  
 Bilsom 303 Large : **10 071 92** (10 pair-pouch, 200 pair-box, 2000 pair-case)  
 Bilsom 303 Small : **10 071 93** (10 pair-pouch, 200 pair-box, 2000 pair-case)  
 Bilsom 304 Large (corded) : **10 001 06** (1 pair-pouch, 100 pair-box, 500 pair-case)  
 Bilsom 304 Small (corded) : **10 001 07** (1 pair-pouch, 100 pair-box, 500 pair-case)



# Earplugs dispensers

Leight Source LS-500 and LS-400 as well as Bilsomat 400 and Bilsomat 100 are efficient dispensers that ensure a ready supply of earplugs in any workplace. They are easy to use, highly visible thus increasing compliance, reducing packaging waste, and saving money.



## LS-500 dispenser

LS-500 dispenser is made of heavy-duty anodised aluminium and designed for wall-mounting. The system dispenses earplugs with a simple turn of the handle. Ideal for large factories and process industries that have zero tolerance for packaging waste.

Leight Source 500 pair dispenser : **33 012 73** (delivered empty)  
Leight Source Refills: 500 pair-refill, 2000 pair-case :  
Max : **33 011 65**  
Max Lite : **33 012 72**  
Laser Lite : **33 012 71**  
MultiMax : **33 012 61**  
Matrix Orange : **10 127 23**  
Matrix Green : **10 127 22**  
Matrix Blue : **10 127 21**



## LS-400 dispenser

LS-400 dispenser is a wall-mounted dispenser. Fully transparent, it can be refilled before it is empty. Dispenser parts are 100% reusable. Dispense earplugs by a simple twist of the knob.

Leight Source 400 pair dispenser : **10 130 40** (delivered empty)  
Leight Source Refills : 200 pair-refill, 2000 pair-case :  
Max : **10 130 46**  
Max Lite : **10 130 48**  
Laser Lite : **10 130 47**  
MultiMax : **10 130 45**  
Matrix Orange : **10 130 42**  
Matrix Green : **10 130 41**  
Matrix Blue : **10 129 11**



## Bilsomat 400 and Bilsomat 100 for Bilsom 303 earplugs

### Bilsomat 400 for Bilsom 303 earplugs

Bilsomat 400 with 400 pairs of Bilsom 303 earplugs  
**10 062 02** for 303 Large  
**10 062 03** for 303 Small

Bilsomat 400 refill with 200 pair-pouch, 2000 pair-case of Bilsom 303 earplugs  
**10 061 86** for 303 Large  
**10 061 87** for 303 Small

### Bilsomat 100 for Bilsom 303 earplugs

Dispenser of 100 pairs of Bilsom 303 earplugs  
**10 058 52** for 303 Large  
**10 058 50** for 303 Small





# Reusable Earplugs

Reusable Earplugs last for weeks, reduce waste and save money. Simply clean with warm water. Ideal for environments where workers can retain and store earplugs for reuse.



## A revolution in personal fit

- Advanced material uses body heat to adapt to the individual shape of each wearer's ear canal
- Delivers superior comfort and a truly individual fit
- Simplifies inventory control – a single product fits almost every wearer
- HearPack® storage case; unique detachable cord system

SmartFit corded: **10 112 39** (HearPack / 50 pair-box, 500 pair-case)



## Total protection, comfort and fit

- FlexiFirm® core for easy handling
- SoftFlange™ design for comfort and fit
- Unique detachable cord system

Fusion standard size corded: **10 112 82** (HearPack / 50 pair-box, 500 pair-case)  
Fusion small size corded: **10 112 81** (HearPack / 50 pair-box, 500 pair-case)



## Easy handling and better fit

- Patented “no-roll” design is easy to handle and fit
- Contoured shape comfortably matches contours of the ear canal
- Built-in insertion stem

Quiet uncorded: **33 011 70** (flip-top box / 100 pair-box, 1000 pair-case)  
Quiet corded: **33 011 72** (flip-top box / 100 pair-box, 1000 pair-case)  
Quiet 200 pair-refill for Leight Source dispenser (2000 pair-case): **33 012 75**



## An industry standard

- Patented internal air cushion
- Maintains superior comfort during extended wear
- Highest SNR available in reusable earplugs

Airsoft uncorded: **33 011 75** (flip-top box / 100 pair-box, 1000 pair-case)  
Airsoft white nylon cord: **33 012 74** (flip-top box / 100 pair-box, 1000 pair-case)  
Airsoft red PVC cord: **33 011 76** (flip-top box / 100 pair-box, 1000 pair-case)



## Clarity™ technology in an earplug

- Rigid stem and soft flanges combined with the built-in miniature membrane provide uniform and moderate attenuation
- Uniform attenuation so that the ability to talk to co-workers is enhanced
- Supersoft flanges for a perfect fit and great comfort
- Rigid stem for easy insertion, fitting and removal
- Handy plastic storage case

Bilsom 656 Large: **10 053 29** (10 pair-box, 100 pair-case)  
Bilsom 656 Small: **10 053 28** (10 pair-box, 100 pair-case)

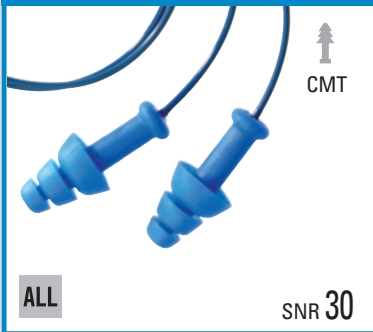




# Detectable Earplugs

Our comprehensive selection of detectable earplugs are designed for high visibility and detectability. Available in disposable and reusable options. Specially created for environments where contamination from foreign objects is unacceptable.

## \* SmartFit® Detectable



### Long wearing comfort in reusable detectable

- Advanced material uses body heat to adapt to the individual shape of each wearer's ear canal
- Delivers superior comfort and a truly individual fit
- Blue colour for visual detection
- Metallic cord and shaft ring easily detected by automated equipment

SmartFit Detectable corded : **10 125 22** (polybag / 50 pair-box, 500 pair-case)

## \* Fusion™ Detectable



### Total protection, comfort and fit in reusable

- Patented dual material design
- FlexiFirm® core for easy handling; SoftFlanges™ for comfort and fit
- Metallic cord and shaft ring easily detected by automated equipment
- Cleans with warm water, lasts for weeks

Fusion Detectable standard size corded : **10 112 34** (HearPack / 50 pair-box, 500 pair-case)  
Fusion Detectable small size corded : **10 112 35** (HearPack / 50 pair-box, 500 pair-case)

## Laser Trak®



### Highest SNR available in disposable detectable

- Self-adjusting foam expands to fit virtually any wearer
- Non-ferrous metal and bright colours – easily detected by visual and automated inspection

Laser Track corded: **33 011 67** (100 pair-box, 1000 pair-case)

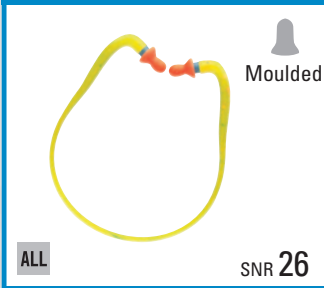




# Banded Earplugs

We offer a variety of performance features, including a patented band design that prevents earpads from touching dirty or contaminated surfaces when set down. Great for managers or for use in environments with intermittent sound hazards.

## QB1 HYG®

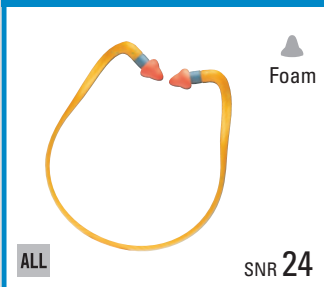


### Inner-aural protection

- Smooth, ergonomic pads fit in the ear for maximum protection
- Patented band design prevents ear pads from touching dirty or contaminated surfaces
- Lightweight and portable designed especially for environments with intermittent noise hazards

QB1 HYG: **33 012 82** (10 pair-box, 100 pair-case)  
Replacement pods: **33 012 81** (50 pair-box, 200 pair-case)

## QB2 HYG®



### Supra-aural protection

- Soft pads rest partially in the ear for a balance of protection and comfort
- Patented band design prevents ear pads from touching dirty or contaminated surfaces
- Lightweight and portable

QB2 HYG: **33 012 80** (10 pair-box, 100 pair-case)  
Replacement pods: **33 011 81** (50 pair-box, 200 pair-case)

## QB3 HYG®



### Semi-aural protection

- Super soft pads rest outside the ear for outstanding comfort
- Patented band design prevents ear pads from touching dirty or contaminated surfaces
- Lightweight and portable – designed especially for environments with intermittent noise hazards

QB3 HYG: **33 012 79** (10 pair-box, 100 pair-case)  
Replacement pods: **33 011 83** (50 pair-box, 200 pair-case)

## Bilsom Percap®



### Foldable headband and soft foam plugs

- Perfect solution when there is a temporary need for hearing protection
- Exchangeable plugs
- Lightweight & foldable it fits easily into a pocket when not needed

Bilsom PerCap: **10 059 52** (1 pair-pocket pack, 10 pair-box)  
Replacement pods: **10 059 80** (10 pair-box)



# Bilsom®

## Hearing safety tools for the most demanding work environments.

Every day, workers count on Bilsom products to block noise and manage sound in some of the world's most acoustically challenging environments. Bilsom products meet these demands through a combination of advanced technology, performance and comfort features that put people first.

### Find It Fast

Need to compare products or find a specific feature? Our FastSpecs make it easy.

#### 1. New Designs



#### 3. Single Number Rating (SNR)

This rating system lets you compare the level of protection offered by various products.

#### 2. Wearing Position



**Over-head**  
Designed for traditional over-the-head wear.



**Multiple-position**  
Multiple options for wear: over-the-head, behind-the-neck or under-the-chin.



**Helmet-mounted**  
Snap mounts for use on hard hats.



**Foldable**  
Convenient folding headband for easy storage.



**Neckband**  
Behind-the-head design for convenient use with other PPE.



### AIR FLOW CONTROL™

Patented High Performance Technology available only from Bilsom.

Bilsom's patented Air Flow Control™ technology delivers improved overall attenuation – especially in low frequencies – optimal for all noise environments.

#### How does it work?

- Air is the primary medium through which sounds travels
- Unique patented design allows air to move freely from the inside of the ear cushion to the outside
- Reduces ear cup vibration caused by low frequency noise

**Air Flow Control is a standard feature on all Thunder and Lightning series earmuffs.**



# Noise Blocking Earmuffs

When you need to block the noise, Bilsom gives you the tools to do the job. From the maximum attenuation available in an earmuff to economical designs, we set the standard for noise blocking and hearing protection. Our Thunder®, Leightning®, Viking™, and Mach 1 earmuffs provide a choice of features and protection, ideal for many workers and environments.



**NEW TECHNOLOGY**

## Thunder®

**Top-of-the-line protection and comfort  
Now with patented Air Flow Control™**

- Maximum protection from an earmuff
- Non-deforming comfort headband to fit all head sizes
- Ventilated inner headband and soft pads for maximum comfort
- Quick-Click height adjustment
- Dielectric design safe for electrical environments

### Thunder® Headband Earmuffs

Thunder T1 Earmuff : **10 109 28**  
Thunder T2 Earmuff : **10 109 29**  
Thunder T3 Earmuff : **10 109 70**

### Thunder® Helmet Earmuffs

- For use with wide variety of popular hard hats
  - Ear cups snap-lock in place and swing-back when not in use
  - Extensive range of adapters available
- Thunder T1H Helmet Earmuff : **10 116 01**  
Thunder T2H Helmet Earmuff : **10 116 02**  
Thunder T3H Helmet Earmuff : **10 116 03**

### Thunder® Folding Earmuff

- Convenient folding headband design for easy storage
  - Quick-Click height adjustment for personalized fit
  - Belt storage case available separately
- Thunder T1F Folding Earmuff : **10 116 00**

### Hygiene Kits

Hygiene kit for T1, T1H, T1F : **10 109 74**  
Hygiene Kit for T2, T2H : **10 109 75**  
Hygiene Kit for T3, T3H : **10 109 76**



# Noise Blocking Earmuffs

**L1**   **SNR 30**

**L1H**   **SNR 28**

**L1N**   **SNR 29**

**L2**   **SNR 31**

**L2H**   **SNR XX**

**L2N**   **SNR 31**

**L2F**   **SNR 32**

**L3**   **SNR 34**

**L3H**   **SNR XX**

**L3N**   **SNR 32**

## Leightning® NEW TECHNOLOGY

**Maximum comfort and contemporary design  
Now with patented Air Flow Control™**

- Robust steel headband withstands demanding use
- Exclusive snap-in cushions make upkeep and ear cushion replacement fast and easy
- Padded foam headband delivering long-wearing comfort
- Contemporary design improves wearer compliance
- Telescoping height adjustment remains fixed during use

### Leightning® Headband Earmuffs

Leightning L1 Earmuff : **10 109 22**  
 Leightning L2 Earmuff : **10 109 23**  
 Leightning L3 Earmuff : **10 109 24**

### Leightning® Helmet Earmuffs

- For use with wide variety of popular hard hats
  - Ear cups snap-lock in place and swing-back when not in use
  - Extensive range of adapters available
- Leightning L1H Helmet Earmuff : **10 119 91**  
 Leightning L2H Helmet Earmuff : **10 119 92**  
 Leightning L3H Helmet Earmuff : **10 119 93**

### Leightning® Neckband Earmuffs

- Sleek, anatomic behind-the-head design
  - Use with faceshields, visors, hart hats, and other PPE
  - Includes headband strap for better positioning
- Leightning L1N Neckband Earmuff : **10 119 94**  
 Leightning L2N Neckband Earmuff : **10 119 95**  
 Leightning L3N Neckband Earmuff : **10 119 96**

### Leightning® Folding Earmuff

- Convenient folding headband design for easy storage
  - Belt storage case available separately
- Leightning L2F Folding Earmuff : **10 119 97**

### Hygiene Kits

Hygiene kit for L1, L1H, L1N : **10 109 71**  
 Hygiene kit for L2, L2H, L2N, L2F : **10 109 72**  
 Hygiene kit for L3, L3H, L3N : **10 109 73**





## Viking™

### Multiple-position headband

- Three position headband offers more wearing options and works with helmets, shields and other protective equipments
- Super soft ear cushions deliver longwearing comfort
- Dielectric design is safe for electrical environments
- Headband strap allows multiple-position wear

Viking V1 : 10 109 25

Viking V2 : 10 109 26

Viking V3 : 10 111 70

### Hygiene Kits

Hygiene Kit for V1 : 10 060 18

Hygiene Kit for V2 : 10 109 77

Hygiene Kit for V3 : 10 109 78



## Mach 1™

### Sets new records for value-for-money hearing protection

- Dielectric design
- Low weight
- Broad ear cushions

Mach 1 : 10 104 21





# Sound Management Earmuffs

Sometimes blocking sound isn't enough. You need to block noise and let information in. Our Sound Management earmuffs use patented electronic and non-electronic technologies that block noise while letting alarms, warning signals and co-workers' voice frequencies be heard more naturally.

## C1



SNR 25

## C1H



SNR 26

## C2



SNR 30

## C1F



SNR 26

## C2



SNR 30

## C3



SNR 33

## C3H



SNR 30

## Clarity™

Bilsom's Clarity Sound Management Technology improves worker safety by blocking noise while voice and signal frequencies can be heard more naturally. Clarity earmuffs provide uniform attenuation that blocks low frequency noise but enhances perception of higher voice and warning signal frequencies without distortion.

### Advanced Sound Management Technology enhances on-the-job communication

- Uniform attenuation allows wearer to hear co-workers, instructions and other important sounds more naturally while blocking out harmful noise
- Does not isolate worker from environment, improves overall safety especially in sensitive environments
- Dielectric construction suitable for all workplaces, especially electrical environments
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear
- Inner-ventilated headband minimizes pressure on the head, breathes easier in warm/humid climates
- Non-deforming outer headband withstands rough treatment in the toughest workplaces
- Quick-Click height adjustment remains fixed during wear
- Snap-in ear cushions make replacement quick and easy

### Clarity™ Headband Earmuffs

Clarity C1 Earmuff : 10 111 42  
Clarity C2 Earmuff : 10 111 45  
Clarity C3 Earmuff : 10 111 46

### Clarity™ Helmet Earmuffs

- For use with wide variety of popular hard hats
- Ear cups snap-lock in place and swing-back when not in use
- Extensive range of adapters available

Clarity C1H Helmet Earmuff : 10 112 42  
Clarity C3H Helmet Earmuff : 10 112 43

### Clarity™ Folding Earmuff

- Convenient folding headband design for easy storage
  - Belt storage case available separately
  - Quick-Click height adjustment for personalized fit
- Clarity C1F Folding Earmuff : 10 111 43

### Hygiene Kits

Hygiene kit for C1, C1H, C1F : 10 060 80  
Hygiene kit for C2 : 10 060 17  
Hygiene kit for C3, C3H : 10 060 81





## Impact™

### Electronic noise filtering + sound amplification

- Directional stereo microphones amplify and enhance sound for more natural hearing
- Ideal for hearing impaired workers
- Limits sound amplification to 82dB(A)
- 700 hour battery life, automatic shut-off function
- New easy access battery compartment

### Impact™ Headband Earmuff

Impact : 10 103 76

### Impact™ Helmet Earmuff

Impact H : 10 106 32

### Hygiene Kit

Hygiene Kit for Impact & Impact H : 10 080 00







# Radio Earmuffs

Add music and routine jobs become more satisfying. Our Radio earmuffs provide protection from noise – and let you listen to music from a built-in FM/AM radio.



## Radio

Listen to built-in FM/AM radio while you work

- Built tough for outdoor work environments
- Limits sound radio volume to 82dB(A)
- 140 hour battery life from two AA batteries

Radio : **10 103 75**  
Hygiene Kit Radio : **10 080 00**



## Electro®

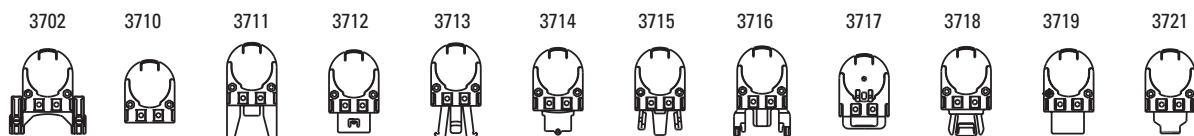
Protection, sound amplification and built-in FM/AM radio

- Separate controls for radio and sound amplification
- Directional microphones amplify and enhance voice sounds
- Limits sound amplification and radio volume to 82dB(A)
- 130 hour battery life from two AA batteries

Electro : **10 103 74**  
Electro H : **10 106 31**  
Hygiene Kit : **10 080 00**



# + Accessories



## Adapters

### For helmets without slots:

Universal adapter **10 002 40** - 3702  
Bolt-on adapter **10 002 41** - 3710

### Blade adapters:

Centurion **10 002 42** - 3711  
Balance, Bullard, LAS, MSA, Voss, Opus **10 002 43** - 3712  
Norton, Bullard **10 002 44** - 3713  
Protector, AO, JSP Domeguard **10 002 45** - 3714  
Auboueix **10 002 46** - 3715

Schubert **10 002 47** - 3716  
JSP Invincible/European MK II **10 002 48** - 3717  
AO, Bullard, Jackson, MSA, North, Willson Alpha **10 002 49** - 3718  
JSP **10 002 50** - 3719  
Protector 300/600, Sofup Oceanic II **10 052 92** - 3721



## Bilsom Audiometric Cabin

Cabin is delivered dismantled, it is simple and quick to assemble. Both the window and the door can be positioned either on the left or on the right for more flexibility. Excellent sound attenuation particularly at the critical frequency 500 Hz for reliable hearing test results. Exterior dimensions : Width 950 mm, Depth 1050 mm, Height 2100 mm. The cabin features large observation window, comfortable patient bench seat, interior light, and efficient ventilation fan.

Attenuation	Hz	125	250	500	1000	2000	4000	8000
	dB	25	33	47	51	51	56	61



## Belt Clip

Easy to attach to the belt or other parts of clothing. Slide the Headband of the Bilsom earmuff into the belt-clip and you have handy storage solution when the muff is not in use and then very easy to get hold of once you enter noisy areas again.

**10 002 52**



## Bilsom Belt Case

The practical design of this robust bag with its velcro inside makes it popular to use together with Bilsom C1F, L2F, T1F and contributes to increasing user acceptance and reaching 100% wearing time.

**10 002 51**



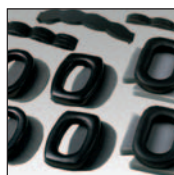
## Bilsom COOL II Pads

Sweat absorbing earmuff pad for increased comfort and hygiene. Made of dermatologically tested material, it is able to absorb 15 times its own weight in water. Bilsom® COOL fits most brands of earmuffs on the market.  
5-pair paper envelope : **10 003 65** - 100-pair dispenser pack : **10 003 64**



## Hygiene Kits

Spare part kit containing ear cushions and foam closing pads.



Ref.	Description	Ref.	Description
<b>10 109 74</b>	Hygiene kit for T1, T1H, T1F	<b>10 060 18</b>	Hygiene kit for V1
<b>10 109 75</b>	Hygiene kit for T2, T2H	<b>10 109 77</b>	Hygiene kit for V2
<b>10 109 76</b>	Hygiene kit for T3, T3H	<b>10 109 78</b>	Hygiene kit for V3
<b>10 109 71</b>	Hygiene kit for L1, L1H, L1N	<b>10 060 80</b>	Hygiene kit for C1, C1H, C1F
<b>10 109 72</b>	Hygiene kit for L2, L2H, L2N, L2F	<b>10 111 45</b>	Hygiene kit for C2
<b>10 109 73</b>	Hygiene kit for L3, L3H, L3N	<b>10 111 46</b>	Hygiene kit for C3, C3H
		<b>10 080 00</b>	Hygiene kit for Impact, Impact H, Radio, Electro, Electro H

# Attenuation data



Attenuation according to EN 352/ISO 4869 - Media: Mean value in dB - SD: Standard deviation in dB - APV: Assumed protection in dB

		Frequency in Hz	63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Disposable earplugs	Max	Media	34.6	37.1	37.4	38.8	38.2	37.9	47.3	44.8	37	36	35	34
		SD	3.0	4.5	4.3	3.7	3.5	4.0	3.5	7.2				
		APV	31.6	32.6	33.1	35.1	34.7	33.9	43.8	37.6				
	Max Lite	Media	-	35.5	36.7	39.0	37.4	33.8	41.9	43.3	34	32	32	31
		SD	-	6.3	7.1	6.6	6.1	3.7	3.8	4.7				
		APV	-	29.2	29.6	32.4	31.3	30.1	38.1	38.6				
	Laser Lite	Media	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
		SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
		APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
	Matrix orange	Media	17.6	21.8	26.1	28.7	29.5	34.9	37.2	39.8	29	31	25	22
		SD	5.1	4.7	5.4	5.2	5.3	3.8	2.7	4.0				
		APV	12.5	17.1	20.7	23.5	24.2	31.1	34.5	35.8				
Matrix green	Media	17.3	21.0	24.5	27.3	27.9	33.8	36.1	40.8	27	29	23	20	
	SD	5.4	5.3	6.7	6.6	4.8	3.7	5.2	6.5					
	APV	11.9	15.7	17.8	20.7	23.1	30.1	30.9	34.3					
Matrix blue	Media	11.9	14.8	17.4	22.9	25.5	30.3	36.7	37.5	23	26	20	15	
	SD	3.2	4.5	4.8	6.2	4.4	5.0	5.1	6.4					
	APV	8.7	10.3	12.6	16.7	21.1	25.3	31.6	31.1					
MultiMax	Media	34.5	37.7	37.8	39.8	36.2	35.9	41.5	42.9	35	33	32	32	
	SD	6.7	7.6	6.7	6.8	5.1	3.9	4.2	6.1					
	APV	27.8	30.1	31.1	33.0	31.1	32.0	37.3	36.8					
Bilsom 303/304	Media	28.4	37.3	37.9	39.1	36.0	34.6	42.5	46.4	33	32	29	29	
	SD	6.4	9.0	9.2	9.7	7.9	4.6	4.9	4.7					
	APV	22.0	28.3	28.7	29.4	28.1	30.0	37.6	41.8					
		Frequency in Hz	63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Reusable earplugs	Quiet	Media	26.1	29.0	28.8	29.1	29.5	33.1	43.3	44.5	28	29	25	23
		SD	6.1	6.9	6.4	7.2	5.1	5.3	6.9	3.4				
		APV	20.0	22.1	22.4	21.9	24.4	27.8	36.4	41.1				
	AirSoft	Media	25.8	29.6	30.7	30.2	30.9	33.4	42.6	43.5	30	30	26	25
		SD	5.9	5.4	5.7	7.2	4.8	4.8	6.1	4.9				
		APV	19.8	24.2	25.0	23.0	26.0	28.6	36.5	38.6				
	Fusion	Media	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24
		SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5				
		APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4				
	SmartFit	Media	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
		SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
		APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Bilsom 656 NST	Media	23.3	23.0	21.3	21.5	24.3	30.8	28.6	39.4	22	24	19	17	
	SD	5.4	5.9	6.2	5.3	5.5	3.9	6.3	6.4					
	APV	17.9	17.1	15.1	16.2	18.8	26.9	22.3	33.0					
		Frequency in Hz	63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Detectable earplugs	Laser Trak	Media	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
		SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
		APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
	SmartFit Detectable	Media	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
		SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
		APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Fusion Detectable	Media	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24	
	SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5					
	APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4					
		Frequency in Hz	63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Banded earplugs	QB1	Media	24.8	28.1	26.5	24.5	25.1	31.7	42.5	40.9	26	28	22	21
		SD	4.3	3.2	5.6	5.7	3.3	4.0	1.8	4.7				
		APV	20.5	24.9	20.9	18.8	21.8	27.7	40.7	36.2				
	QB2	Media	22.5	24.7	22.7	18.7	22.5	30.8	35.8	34.6	24	26	20	19
		SD	5.4	4.4	4.8	1.8	3.6	4.9	3.8	5.8				
		APV	17.1	20.3	17.9	16.9	18.9	25.9	32.0	28.8				
	QB3	Media	23.5	22.3	20.6	16.8	22.7	30.6	34.2	33.7	23	25	19	17
		SD	4.3	4.2	3.7	2.4	4.0	3.5	3.8	6.1				
		APV	19.2	18.1	16.9	14.4	18.7	27.1	32.4	27.6				
	Percap	Media	21.4	22.5	21.5	19.0	22.6	30.3	35.7	38.8	24	27	20	18
		SD	4.8	3.5	3.6	2.9	2.7	3.1	4.2	4.3				
		APV	16.6	19.0	17.9	16.1	19.9	27.2	31.5	34.5				

