

# 3M™ E-A-R™ Ultrafit™ Metal Detectable Reusable Earplugs

## Technical Data Sheet

### Product description

The E-A-R™ Ultrafit™ metal detectable reusable earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise. These products are only available corded.

### Features

- Unique patented tri-flange design fits a wide range of ear canal sizes
- Metal detectable- both ear tip and cord
- Visible blue coloration for ease of detection
- Longer stem helps make insertion easier
- Made from soft and durable material
- One size fits the majority of wearers
- Compatible with E-A-Rfit™ Dual Ear Validation System
- Easy to wash and re-use
- Supplied in re-sealable pillow-pack for ease of use

### Applications

The E-A-R™ Ultrafit™ metal detectable earplugs are specifically designed for the designed for the food and beverage and pharmaceutical industry.

### Standards

These hearing protectors have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1270:2002.



### Laboratory Attenuation Values

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	19.1	18.9	21.2	20.5	28.9	32.1	36.3
SD (dB)	8.1	8.1	9.3	5.7	6.8	10.6	11.0
Mean - SD (dB)	11.0	10.8	11.9	14.8	22.1	21.5	25.3

SLC<sub>80</sub> 18dB (Class 3)

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.

Hearing protector Class 3 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 95 dB(A) to less than 100dB(A), assuming an 85dB(A) criterion.

A lower criterion may require a higher protector class.

**Mean** = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002.

**SD** = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002.

**Mean-SD** = Mean attenuation value minus Standard Deviation

**SLC80** = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC80 in 80% of protector-wearer noise spectrum combinations.

**Class** = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

## Materials

The following materials are used in the manufacture of this product.

Component	Material
Earplugs	Thermoplastic elastomere with 2mm steel ball bearing
Cord	Solid polymer with metal inclusions

## Ordering Information

3M Order Code	Model #	Description
70071515749	340-4007	3M™ E-A-R™ UltraFit™ Metal Detectable Corded
70071562758	393-2001-50	3M™ E-A-R™ UltraFit™ Probed Test Plug

## Storage

Store in an area free of contamination.

Do not leave your hearing protection device in areas or locations where it can be exposed to damage or contamination.

Sunlight is particularly damaging as UV light can have a detrimental effect on the materials the product is made from.

Chemical contamination can also have a serious effect on product integrity and decontamination after use is recommended.

Use a suitable storage container especially if left in a vehicle. This will protect the hearing protection device from damage and extend its working life.

### 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 proper use, see supervisor, User instructions, or call 3M TechAssist Helpline 1800 024 46.

**Important Notice:** To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



**3M Australia Pty Ltd**  
**Personal Safety Division**  
 Bldg A, 1 Rivett Road  
 North Ryde NSW 2113

TechAssist Helpline 1800 024 464  
 Customer Service 1300 363 565  
 Email techassist@mmm.com  
 Web www.3M.com.au/ppesafety

**3M New Zealand Ltd**  
**Personal Safety Division**  
 94 Apollo Drive, Rosedale  
 Auckland 0632

TechAssist Helpline 0800 364 357  
 Customer Service 0800 252 627  
 Email 3mzibt@mmm.com  
 Web www.3m.com.nz/ppesafety