3M Science. Applied to Life.™

3M™ E-A-R™ UltraFit™ Earplugs

Technical datasheet

Product description

The 3M™ E-A-R™ UltraFit™ Earplugs are reusable and designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. Each set of plugs is supplied with a pre tipped cord meaning you can insert and have corded or remove and have uncorded, giving you the option to wear as you choose.

The 3M E-A-R UltraFit reusable earplugs may be used for protection against moderate to high noise environments, providing effective protection across all test frequencies.

Key features

- Patented tri-flange design in pre-moulded material makes them a fit for most ear canals
- Available in one size only
- Firm, long stem for easy insertion and removal
- Made from soft and durable material
- SNR 32dB – see full attenuation table
- Compatible with the 3M™ E-A-Rfit™ Dual-Ear Validation System
- Can be washed up to 50 times with mild detergent
- Supplied in re-closable packaging
- Separate cord which can be removed and reinserted for optional uncorded or corded wear

Standard and approval:

The reusable 3M E-A-R UltraFit earplugs are type approved against the European Regulation (EU) 2016/425 by BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, UK, Notified Body No. 0086.

These products meet the requirement of the Harmonised European Standard EN 352-2:2002.

The applicable Certificate(s) and Declaration(s) of Conformity are available at www.3M.com/Hearing/certs.

Materials

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

Ear plugs	Thermoplastic elastomer
Cord	Recycled PVC

Attenuation values:

f (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	29.2	29.4	29.4	32.2	32.3	36.1	44.3	44.8
sf (dB)	6.0	7.4	6.6	5.3	5.0	3.2	6.0	6.4
APVf (dB)	23.2	22.0	22.7	26.9	27.3	32.8	38.3	38.4

SNR = 32dB, H = 33dB, M = 28dB, L = 25dB, APVf (dB) = Mf – sf (dB)

Key:

f = Test frequency

Mf = Mean attenuation value

sf = Standard deviation

APVf = 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).

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

Personal Safety Division

3M United Kingdom PLC
3M Centre
Cain Road, Bracknell
Berkshire RG12 8HT
t: 0870 60 800 60
www.3M.eu/PPEsafety

Version 3
This version is the sole document applicable to the product(s) since its date of publication.