



3M™ E.A.RSoft™ 21 Ear Plugs

Product Description

The 3M™ E.A.RSoft™ 21 ear plugs are soft foam plugs designed to seal the entrance part of the ear canal to help reduce exposure to hazardous levels of noise and loud sound. These products are available in uncorded version only.

Key Features

- Soft polyurethane foam for greater comfort and wearability
- No need for roll-down
- Special finger grip for ease of removal
- Seals the entrance part of the ear canal thus making it more wearer acceptable
- Soft pastel colour appeals to modern wearer
- Provides attenuation (SNR 21dB) for exposure to low to moderate levels of noise

Applications

The 3M™ E.A.RSoft™ 21 ear plugs are ideal for moderate noise levels in both industrial workplace and leisure environment. Examples of typical applications include:

- General assembly
- Light engineering
- Automotive
- Construction
- Textile manufacture
- Chemical & pharmaceutical manufacture
- Woodworking

Standard & Approval

The 3M™ E.A.RSoft™ 21 ear plugs are tested and CE approved against the European Standard EN352-2:2002. The product meets the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and have been examined at the design stage by INSPEC International Limited, 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, UK (Notified Body number 0194).

Materials

Slow recovery polyurethane foam.

Product Range



E.A.RSoft™ 21 Ear Plugs

Attenuation values

E.A.RSoft™ 21 Ear Plugs

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	19.1	18.1	16.1	17.1	19.8	31.9	34.9	31.0
sf (dB)	5.9	5.4	4.9	4.0	2.8	4.7	4.3	5.2
APVf (dB)	13.2	12.7	11.2	13.1	17.0	27.2	30.6	25.8

SNR = 21dB H = 24dB M = 17dB L = 14dB APVf (dB) = Mf – sf (dB)

Key

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = -2\text{dB}$)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = +2\text{dB}$)

L = Low-frequency attenuation value (predicted noise level reduction for noise with $L_C - L_A = +10\text{dB}$)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, L_C in order to estimate the effective A-weighted sound pressure level inside the ear).

Limited Remedy

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

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