

3M™ E-A-R™ Classic™ SuperFit™ 36 Earplugs

Technical datasheet



Product description

The disposable 3M™ E-A-R™ Classic™ SuperFit™ 36 Earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. These earplugs feature a unique orange colour ring to aid correct fitting.

3M E-A-R Classic SuperFit 36 earplugs may be used for protection against high noise environments, providing effective protection across all test frequencies.

Key features

- ▶ Proprietary slow recovery polymer foam helps achieve good acoustic properties
- ▶ Unique orange colour “fitting ring” that helps ensure correct insertion, when no orange is visible the best fit is achieved
- ▶ Cylindrical shape helps fit most ear canal sizes for reliable seal
- ▶ Specially designed to fit larger ear canals
- ▶ Low equilibrium pressure helps reduce pressure in ear canal
- ▶ Exposed cell surface texture resists movement in the ear canal thus minimising the need to often re-fit the earplug
- ▶ Ideal for higher attenuation needs with SNR 36dB– see full attenuation table

Standards and approvals

The disposable 3M E-A-R Classic SuperFit 36 earplugs are type approved against the European Regulation (EU) 2016/425 by BSI Group, The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands, Notified Body No. 2797.

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:

Earplugs	Proprietary slow recovery polymer foam
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Attenuation values*

f (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	29.1	32.4	36.0	38.0	38.9	39.1	43.1	44.6
sf (dB)	6.2	7.3	7.3	6.8	6.7	3.1	6.1	6.3
APVf (dB)	22.8	25	28.7	31.2	32.2	35.9	37.0	38.4

SNR = 36dB, H = 36dB, M = 33dB, L = 30dB

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.

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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.

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