

Technical Datasheet

E-A-R™ Classic™ Roll-Down Earplugs

Corded CC-01-000
Uncorded PP-01-002



Product Description

The E-A-R™ Classic™ Roll-Down earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound.

This product is available in corded and uncorded versions.

The uncorded version is also available in One Touch™ Dispenser format.

Key Features

- Proprietary soft energy absorbing polymer foam
- Firm material with slow recovery time helps achieve good fit
- Special cylindrical shape that fits most ear canals and provides a reliable seal
- Extremely soft foam helps provide low pressure inside the ear canal thus increasing comfort and wearability
- Exposed cell surface texture resists movement and helps maintain an effective seal
- Excellent sound attenuation characteristics
- Supplied in a re-sealable pillow-pack for ease of use
- Sweat and humidity resistant which helps improve comfort. Ideally suited for use in hot and humid conditions
- Available in both corded and uncorded versions

Applications

The E-A-R™ Classic™ is ideal for moderate to high noise levels, and is particularly suited for high frequency noise in both the workplace and leisure environments. Examples of typical applications include:

- Automotive
- Chemical & pharmaceutical manufacture
- Construction
- Light engineering
- Metal processing
- Textile manufacture
- Woodworking



Occupational Health Group
3M United Kingdom plc
3M Centre
Cain Road, Bracknell
Berkshire, RG12 8HT
Tel: 0870 60 800 60
www.3M.co.uk/ohes

Occupational Health Group
3M Ireland limited
The Iveagh Building
The Park Carrickmines
Dublin 18
Tel: 1800 320 500

Attenuation values

Corded

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	21.7	23.7	26.1	30.4	30.1	33.8	42.6	42.1
sf (dB)	6.3	5.6	5.2	5.7	5.3	4.6	4.0	5.7
APVf (dB)	15.4	18.0	20.9	24.6	24.9	29.2	38.6	36.4

SNR = 29dB

H = 30dB

M = 26dB

L = 23dB



Uncorded

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	22.3	23.3	24.6	26.9	27.4	34.1	41.6	40.4
sf (dB)	5.4	5.3	3.6	5.4	4.8	3.1	3.5	6.4
APVf (dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0

SNR = 28dB

H = 30dB

M = 24dB

L = 22dB

Key

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with $L(C) - L(A) = -2dB$)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with $L(C) - L(A) = +2dB$)

L = Low-frequency attenuation value (predicted noise level reduction for noise with $L(C) - L(A) = +10dB$)

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).

Standard & Approval

The E-A-R™ Classic™ roll-down earplugs have been tested and CE approved against the European Standard EN352-2:1993. The product meets the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and has 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

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

Component	Material
Earplugs	Slow recovery polymer foam
Cord	Polymer

Important Notice

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.